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REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703)827-5260

STATISTICS

No. 142-89 October 25, 1989

U.S. FOREIGN TRADE -- AUGUST 1989

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY

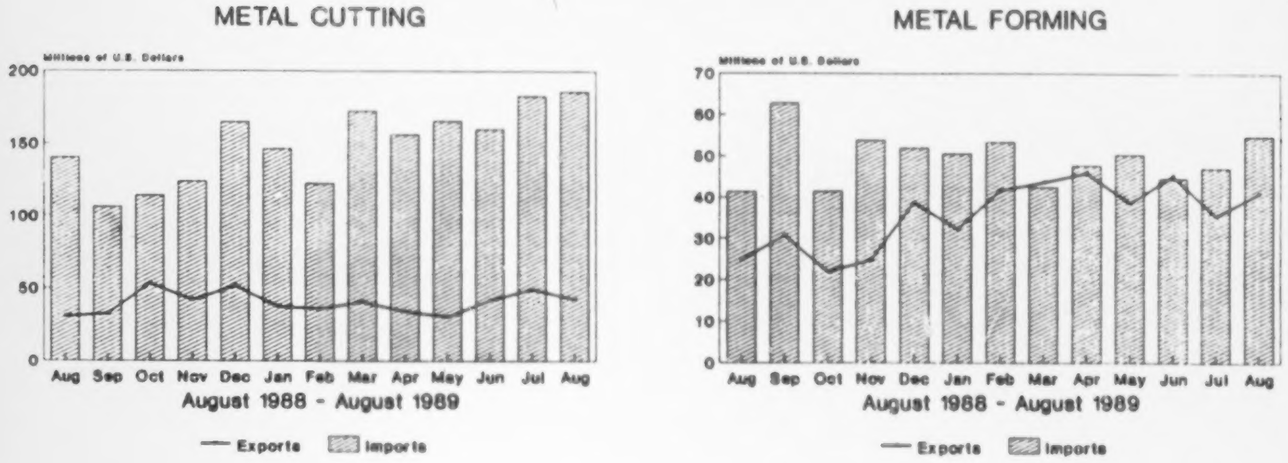
(Millions of U.S. Dollars)

	August 1989	July 1989	% Change July-Aug.	Year to Date '89	Year to Date '88	% Change '88-'89
METAL CUTTING MACHINE TOOLS						
Imports	$185.6	$182.6	1.6%	$1,289.8	$1,035.9	24.5%
Exports	$ 42.4	$ 49.2	(13.8%)	$ 311.6	$ 264.8	17.7%
Balance	($143.2)	($133.4)	7.3%	($ 978.2)	($ 771.1)	26.9%
METAL FORMING MACHINE TOOLS						
Imports	$ 54.7	$ 46.9	16.6%	$390.0	$305.4	27.7%
Exports	$ 40.9	$ 35.3	15.9%	$322.5	$208.6	54.6%
Balance	($ 13.8)	($ 11.6)	19.0%	($ 67.5)	($ 96.8)	(30.3%)
MACHINE TOOL TOTAL						
Imports	$240.3	$229.5	4.7%	$1,679.7	$1,341.3	25.2%
Exports	$ 83.3	$ 84.4	(1.3%)	$ 634.1	$ 473.4	33.9%
Balance	($157.0)	($145.1)	8.2%	($1,045.6)	($ 867.9)	20.5%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Imports	$120.8	$133.4	(9.4%)	$887.9	NA	NA
Exports	$ 24.7	$ 19.3	28.0%	$156.5	NA	NA
Balance	($ 96.1)	($114.1)	(15.8%)	($731.4)	NA	NA
OTHER MANUFACTURING TECHNOLOGY						
Imports	$111.1	$110.0	1.0%	$992.1	NA	NA
Exports	$112.4	$104.0	8.1%	$805.7	NA	NA
Balance	$ 1.3	($ 6.0)	NM	($186.4)	NA	NA

Note: Numerically controlled machine tools includes both metal cutting and metal forming types, and are included in the respective totals. NM = not meaningful; NA = not available; ( ) denotes negative

During August 1989 exports of metal forming machine tools were up sharply, while exports of metal cutting machine tools were down sharply compared with July. Imports of both metal forming and metal cutting machines were higher. Exports of NC machines rose 28% compared with July. The overall U.S. machine tool trade deficit rose 8% from July to August and is 21% higher this year than last.

U.S. MONTHLY TRADE IN MACHINE TOOLS

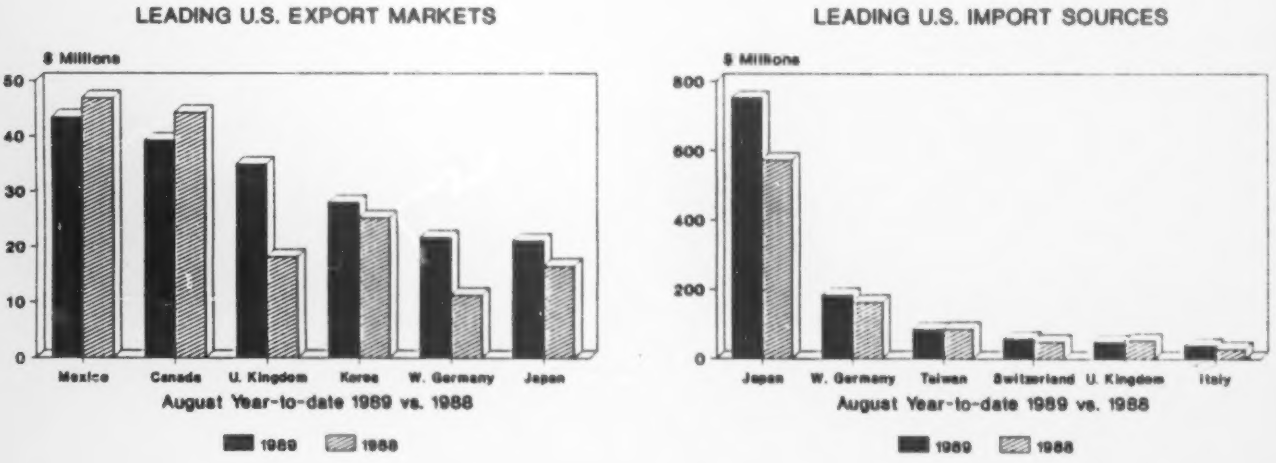


METAL CUTTING

Exports

August exports of metal cutting machines fell to $42.4 million from July's $49.2 million. Exports of grinding and polishing machines dropped from $19.5 million in July to $12.6 million in August; lathe exports fell to $2.5 million from $3.7 million in July. Exports of machining centers fell 22% to $3.7 million, while exports of transfer machines rose to $4.9 million from zero in July. Exports to Mexico fell from $10.0 million in July to $4.6 million in August (see attached summary sheets), while Korean exports tumbled from $4.5 million in July to $2.0 million in August. Year-to-date exports are down 11% to Canada and 7% to Mexico but up 92% and 93% to the United Kingdom and West Germany, respectively, over last year.

METAL CUTTING MACHINE TOOL FOREIGN TRADE



Imports

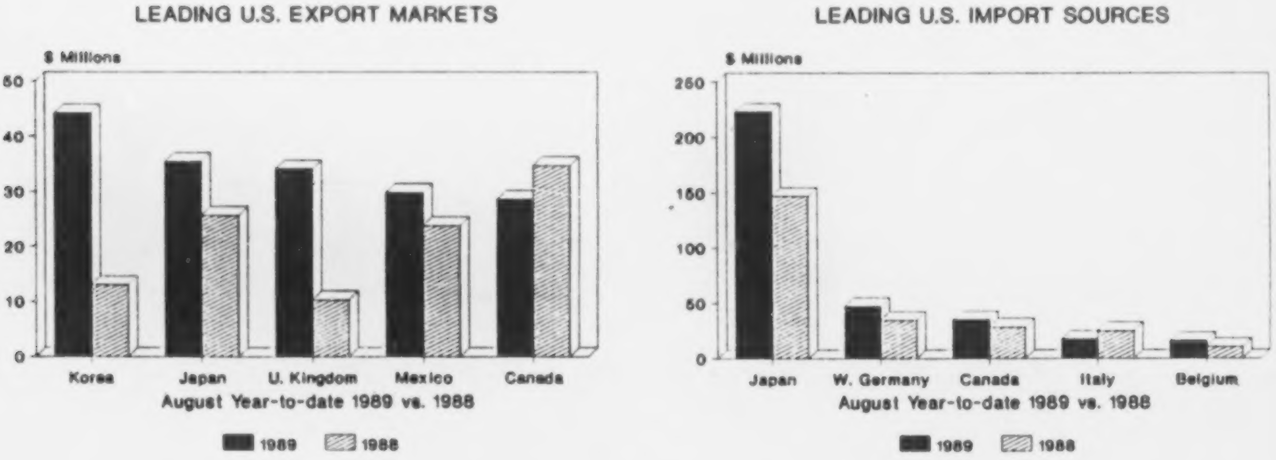
U.S. metal cutting machine tool imports in August were $185.6 million, an all-time high, up 2% from July's record $182.6 million. Japan supplied 60%, or $110.6 million, of the total; West Germany's share was $27.2 million, or 15%. Year-to-date metal cutting imports are up 25% from last year. Imports of machining centers are 21% higher this year than last, at $269.1 million; imports of lathes are up 31%, to $337.4 million. Year-to-date imports are sharply higher from France (up 122% to $17.5 million); Korea (97%, $16.9 million); and Singapore (96%, $10.4 million).

METAL FORMING

Exports

U.S. exports of metal forming machine tools rose 16% from July to August, to $40.9 million; year-to-date exports are up 55% to $322.5 million. Taiwan was the largest market in August at $5.7 million (up from $0.4 million in July). Mexico rebounded from $2.9 million in July with $4.7 million in August. Korea remains the leading export market for forming machines during 1989 at $44.2 million. Exports of used or rebuilt machine tools through August are more than five times higher this year than last, at $51.9 million. Exports of punching and shearing machines are up 34% over last year, at $40.7 million.

METAL FORMING MACHINE TOOL FOREIGN TRADE



Imports

August metal forming imports rose 17% over July to $54.7 million, buoyed by an almost three-fold increase in imports of presses to $23.6 million. Japan supplied 61%, or $33.5 million of U.S. forming imports in August. Year-to-date imports compared with last year are up 52% from Japan (to $222.5 million); 51% from Belgium (to $15.7 million); 36% from West Germany (to $46.9 million); 27% from Taiwan (to $5.9 million); and 23% from Canada (to $34.9 million). Metal forming imports are down 70% from France (to $1.2 million); 31% from Italy (to $17.1 million); and 27% from Switzerland (to $10.7 million). Imports from Brazil shot to $4.4 million in August, up from zero in July.

Other Manufacturing Technology

Exports

U.S. exports of Other Manufacturing Technology in August rose 8% from July to $112.4 million, resulting in a rare trade surplus for the United States of $1.3 million. Exports of machine tool parts and accessories totalled $72.6 million in August, up 6% over July and 32% over June. Canada ($8.2 million), West Germany ($7.2 million), the United Kingdom ($6.7 million) and Mexico ($4.9 million) were the largest parts markets in August. Also showing solid export growth were: laser, light or photon beams, up 151% to $5.9 million; extruders for processing thermoplastics, up 55% to $3.9 million; robots, up 41% to $4.7 million; profile projectors, up 186% to $1.1 million; and industrial process control instruments, up 37% to $5.0 million. Exports of numerical controls fell 28% from July to August to $3.1 million.

Imports

U.S. imports of Other Manufacturing Technology rose 1% from July to $111.1 million. Imports of parts and accessories jumped 15% to $41.6 million, due largely to a three-fold increase in parts imports from Canada (to $5.5 million.) Imports of injection molding machinery for thermoplastics increased 15% to $28.7 million, while imports of injection molding machinery for rubber or other thermosetting declined 18% to $8.8 million. Imports of numerical controls fell to $2.6 million, the lowest monthly total since January 1989. Japan supplied $50.0 million, or 45%, of U.S. Other Manufacturing Technology during August.

MONTHLY FOCUS

U.S. Balance of Trade in Other Manufacturing Technology

During August, Other Manufacturing Technology recorded a $1.3 million trade surplus with the rest of the world (see page 1). But as the table below shows, for the first eight months of 1989 the U.S. has a trade deficit with the rest of the world of $186.4 million in Other Manufacturing Technology . Values in the table below are in millions of dollars.

Product	Exports	Imports	Balance
Machine tool parts and accessories	$477.6	$419.4	$ 58.2
Machines for testing and balancing	67.2	15.5	51.8
Injection molding machinery	47.5	255.4	(207.8)
Robots and parts	42.5	150.5	(108.0)
Extruders for thermoprocessing	35.6	46.3	(10.6)
Blow or vacuum molding machines	33.4	47.1	(13.6)
Laser, light or photon beam	30.7	14.7	16.0
Industrial process control instr.	28.8	4.0	24.8
Numerical controls	28.4	34.4	(5.9)
Quenching and cutting oils	7.6	0.1	7.5
Profile projectors	5.8	3.5	2.3
Ultrasonic processes	0.5	1.4	(1.0)
Totals	$805.7	$992.1	($186.4)

Note: ( ) denotes deficit. Individual items may not add to totals due to rounding

1989 EXPORTS

METAL CUTTING

COUNTRY	AUGUST	JULY	PERCENTAGE CHANGE	Y-T-D '89	Y-T-D '88	PERCENTAGE CHANGE
Mexico	$ 4,647,537	$ 10,048,354	-53.75%	$ 43,388,314	$ 46,873,000	-7.43%
Canada	4,484,743	4,896,096	-8.40	39,198,836	44,191,000	-11.30
U.K.	7,724,490	6,576,804	17.45	34,929,364	18,165,000	92.29
Korea	1,956,168	4,489,107	-56.42	27,979,266	25,213,000	10.97
W Germany	5,697,246	3,690,776	54.36	21,698,894	11,265,000	92.62
Japan	2,712,640	2,734,873	-0.81	21,116,107	16,532,000	27.73
China	2,925,785	2,243,802	30.39	18,804,866	15,044,000	25.00
Italy	1,964,120	444,196	342.17	10,053,899	5,829,000	72.48
France	723,595	329,073	119.89	9,521,298	5,148,000	84.95
India	1,068,831	2,798,869	-61.81	8,025,989	4,436,000	80.93
Australia	777,373	1,606,471	-51.61	7,424,646	2,483,000	199.02
Brazil	687,088	1,899,441	-63.83	6,640,888	4,479,000	48.27
Singapore	623,966	327,952	90.26	5,907,832	4,179,000	41.37
Taiwan	367,423	738,549	-50.25	5,650,175	6,773,000	-16.58
Belgium	460,297	710,049	-35.17	5,226,156	3,715,000	40.68
Venezuela	100,268	43,033	133.00	4,675,429	11,128,000	-57.99
Indonesia	609,600	175,800	246.76	3,774,110	322,000	1,072.08
Netherlands	51,176	172,386	-70.31	3,425,833	1,789,000	91.49
Spain	23,040	1,299,164	-98.23	2,773,112	1,714,000	61.79
Switzerland	133,557	154,267	-13.42	2,754,336	2,050,000	34.36
Thailand	326,122	431,550	-24.43	1,876,029	447,000	319.69
USSR	490,575	0	NA	1,219,935	1,092,000	11.72
Austria	108,050	404,431	-73.28	983,240	784,000	25.41
Malaysia	194,724	101,840	91.21	723,815	270,000	168.08

METAL FORMING

COUNTRY	AUGUST	JULY	PERCENTAGE CHANGE	Y-T-D '89	Y-T-D '88	PERCENTAGE CHANGE
Korea	$ 3,241,699	$ 4,938,955	-34.36%	$ 44,205,349	$ 12,991,000	240.28%
Japan	982,993	2,093,385	-53.04	35,374,307	25,673,000	37.79
U.K.	3,503,312	4,464,208	-21.52	34,079,789	10,255,000	232.32
Mexico	4,674,927	2,892,435	61.63	29,749,294	23,764,000	25.19
Canada	2,588,000	5,316,299	-51.32	28,596,693	34,732,000	-17.66
W Germany	3,488,703	1,677,952	107.91	17,284,022	16,786,000	2.97
Taiwan	5,650,936	413,350	1,267.11	11,869,049	8,200,000	44.74
China	783,181	0	NA	8,022,455	4,849,000	65.45
Venezuela	1,459,598	274,413	431.90	7,485,819	5,388,000	38.94
Singapore	250,291	110,174	127.18	6,609,347	1,596,000	314.12
India	168,382	898,489	-81.26	6,564,539	1,744,000	276.41
Italy	140,792	1,079,532	-86.96	6,383,367	4,824,000	32.33
Netherlands	631,097	3,585,193	-82.40	5,651,429	2,754,000	105.21
France	165,462	515,219	-67.89	5,341,135	6,865,000	-22.20
Brazil	1,432,795	981,014	46.05	5,333,108	8,836,000	-39.64
Australia	164,421	387,131	-57.53	5,036,315	6,267,000	-19.64
Spain	325,434	157,540	106.57	3,250,502	4,687,000	-30.65
Thailand	1,326,642	218,687	506.64	3,234,442	2,786,000	16.10
Belgium	514,518	124,000	314.93	2,311,735	1,186,000	94.92
Malaysia	16,851	587,679	-97.13	1,340,336	2,417,000	-44.55
Switzerland	205,070	30,979	561.96	1,180,106	1,402,000	-15.83
Austria	12,505	33,355	-62.51	662,010	106,000	524.54
Indonesia	12,000	31,337	-61.71	152,452	385,000	-60.40
USSR	0	0	NA	107,711	52,000	107.14

October 30, 1989
NMTBA - The Association For Manufacturing Technology

1989 IMPORTS

METAL CUTTING

COUNTRY	AUGUST	JULY	PERCENTAGE CHANGE	Y-T-D '89	Y-T-D '88	PERCENTAGE CHANGE
Japan	$ 110,565,209	$ 103,138,127	7.20%	$ 750,489,980	$ 572,345,000	31.13%
W Germany	27,202,273	26,469,459	2.77	181,755,614	162,151,000	12.09
Taiwan	12,972,740	13,378,936	-3.04	83,877,378	84,976,000	-1.29
Switzerland	6,470,079	9,514,029	-31.99	57,170,526	48,770,000	17.22
U.K.	5,536,087	6,431,240	-13.92	48,171,385	53,177,000	-9.41
Italy	7,191,266	6,007,394	19.71	37,699,667	28,870,000	30.58
France	1,305,296	1,283,644	1.69	17,514,821	7,898,000	121.76
Korea	2,200,053	1,696,176	29.71	16,851,690	8,540,000	97.33
Spain	2,504,903	1,157,120	116.48	13,804,071	13,200,000	4.58
Canada	1,302,713	3,237,219	-59.76	13,671,160	11,998,000	13.95
Singapore	1,866,803	1,456,799	28.14	10,367,268	5,278,000	96.42
Sweden	627,047	1,691,894	-62.94	7,687,616	6,766,000	13.62
Belgium	88,535	331,480	-73.29	4,498,308	1,261,000	256.73
Brazil	690,807	283,034	144.07	4,168,824	3,184,000	30.93

METAL FORMING

COUNTRY	AUGUST	JULY	PERCENTAGE CHANGE	Y-T-D '89	Y-T-D '88	PERCENTAGE CHANGE
Japan	$ 33,512,082	$ 23,875,493	40.36%	$ 222,503,150	$ 146,765,000	51.61%
W Germany	5,130,869	8,565,083	-40.10	46,922,059	34,477,000	36.10
Canada	2,535,806	3,150,627	-19.51	34,920,819	28,323,000	23.29
Italy	3,179,603	2,837,098	12.07	17,133,104	24,876,000	-31.13
Belgium	2,438,791	2,550,152	-4.37	15,735,839	10,393,000	51.41
Switzerland	1,101,125	522,209	110.86	10,665,177	14,661,000	-27.25
U.K.	528,598	809,810	-34.73	9,708,639	11,459,000	-15.27
Sweden	145,340	1,453,303	-90.00	5,956,195	8,192,000	-27.29
Taiwan	607,904	380,034	59.96	5,902,348	4,652,000	26.88
Brazil	4,365,164	0	NA	4,508,589	6,389,000	-29.43
Spain	195,319	449,766	-56.57	1,937,267	2,476,000	-21.76
France	181,501	67,402	169.28	1,170,445	3,908,000	-70.05
Singapore	3,210	119,913	-97.32	725,962	1,154,000	-37.09
Korea	0	0	NA	174,508	202,000	-13.61

October 30, 1989
NMTBA - The Association For Manufacturing Technology

U.S. IMPORTS
Metal Cutting Machine Tools - August 89

RELEASED: October 25, 1989

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC	506	41741	52	4465
301030	Traveling wire electro-discharge machines, non-NC	192	13399	52	4065
301050	Electro-discharge machines, n.e.c., NC	123	5923	10	857
301070	Electro-discharge machines, n.e.c., non-NC	251	9254	44	1339
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1559	127724	242	19038
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	144	19159	23	4532
100035	Horiz. mach. ctrs., ATC	524	91667	106	12488
100045	Mach. ctrs., n.e.c.	224	30589	25	4296
200010	Unit construction mach. (single station transfer), NC	19	3356	6	1583
200090	Unit construction mach. (single station transfer), non-NC	15	777	2	227
300010	Multi-station transfer machines, NC	24	18106	5	2391
300090	Multi-station transfer machines, non-NC	94	24248	19	5464
8458110010	Horiz. lathes, multiple spindle, NC	210	32580	36	5203
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2168	162149	250	17660
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	421	56137	64	8387
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	58	8634	2	1221
190030	Horiz. engine or toolroom lathes, non-NC	2055	19803	354	2991
190050	Automatic bar and/or chucking mach., single spindle, non-NC	308	10319	9	697
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	67	3458	8	116
190090	Horiz. lathes, n.e.c., non-NC	673	9215	57	649
911060	Vertical turret lathes, multiple spindle, NC	20	7399	4	698
911080	Vertical turret lathes, n.e.c., NC	33	4264	7	688
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	682	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	53	5029	5	332
991050	Vertical turret lathes, non-NC	40	3042	15	203
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	545	14640	97	2269
8459100000	Way-type unit head machines	8	541	0	0
210080	Other drilling machines, NC	340	28455	52	3523
290040	Drilling machines, multiple spindle, non-NC	77	5462	29	3015
290050	Drilling machines, radial, non-NC	314	1978	61	341
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	183	1423	32	160
290090	Drilling machines, n.e.c., non-NC	404	23126	74	2191
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	1896	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	108	10446	16	1270
310070	Boring-milling mach., n.e.c., NC	49	2867	1	146
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	31	1031	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	145	5163	10	308
400040	Boring machines, vertical, NC	15	6228	3	499
400050	Boring machines, vertical, non-NC	38	502	9	144
400070	Boring machines, n.e.c., NC	10	2459	1	161
400080	Boring machines, n.e.c., non-NC	197	10624	35	848
510080	Milling machines, knee type, NC	895	12828	174	1770
590030	Milling machines, knee type, non-NC	2282	22666	336	3877
610080	Milling machines, excl. knee type, n.e.c., NC	312	30375	65	2370
690050	Milling machines, profile, dup., or die sinking, non-NC	53	611	12	55
690070	Milling machines, bed type, non-NC	78	2303	7	290
690090	Milling machines, n.e.c., non-NC	409	11882	47	2793
700020	Threading or tapping machines, n.e.c., NC	202	11105	18	858
700080	Threading or tapping machines, n.e.c., non-NC	201	7950	37	626
8460110080	Flat surface grinding mach., NC	126	10016	9	1448
190010	Flat surface grinding mach., recip.-table type, non-NC	744	8074	95	739
190050	Flat surface grinding mach., n.e.c., non-NC	1175	14393	168	3081
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	380	69643	129	12887
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	272	9601	50	926
290030	Grinding mach., internal cylindrical, non-NC	110	9755	19	2183
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	915	31955	87	5174
310080	Sharpening machines (tool & cutter grinding), NC	188	2252	22	249
390050	Sharpening machines (tool & cutter grinding), non-NC	462	6467	68	603
400060	Honing or lapping machines, NC	31	6200	2	187
400080	Honing or lapping machines, non-NC	111	3913	5	818
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	40	3812	3	399
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	905	24494	172	3115
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	4	84	2	26
200010	Shaping or slotting machines, NC	29	2192	3	759
200090	Shaping or slotting machines, non-NC	40	1465	4	110
300060	Broaching machines, NC	9	2067	0	0
300080	Broaching machines, non-NC	40	4010	1	60
401050	Gear hobbers	80	13883	14	3474
401070	Gear shapers	10	1301	2	239
401090	Gear cutting machines, n.e.c.	280	948	22	13
405060	Gear grinding or finishing machines	145	14104	19	2166
500050	Sawing or cutting-off machines, NC	94	2391	18	293
500090	Sawing or cutting-off machines, non-NC	1305	17485	218	2566
9000000001	Metal cutting machine tools, n.e.c.	481	11824	45	889
9800000001	Used or rebuilt machine tools	4951	28656	1343	5011
9900000001	Machine tools valued at less than $2,500	428693	63569	70330	10237
	Cutting Total			75363	185557
	Y-T-D Cutting Total	458304	1289771		
	NC Y-T-D Cutting Total	8965	822536		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - August 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301030	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	1	57	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	2	175
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	1	583
300090	0	0	0	0	6	191	0	0	4	2415
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	1	8	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	44	352	1	9	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	22	201	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	1	16	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	13	163	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	2	13	0	0	1	3
290040	0	0	0	0	0	0	0	0	4	16
290050	0	0	1	8	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	2	776	35	1020
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	147
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	32
400050	0	0	0	0	0	0	0	0	8	119
400070	0	0	0	0	0	0	0	0	0	0
400080	20	84	0	0	3	43	0	0	1	5
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	401
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	3
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	1	3	10	0	0
210080	0	0	0	0	0	0	0	0	1	46
290010	0	0	1	114	13	87	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	13	184	1	2	5	82
310080	0	0	0	0	0	0	1	22	0	0
390050	0	0	0	0	5	16	0	0	7	71
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	1	60	26	90	41	1100
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	11	48
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	17	180	1	34	64	276
9000000001	0	0	0	0	7	276	12	193	0	0
9800000001	33	2	0	0	26	47	0	0	3	11
9900000001	8	2	0	0	34	35	123	113	3100	639
Month Tot	61	89	69	691	142	1303	171	1305	3292	7191
Y-T-D Tot	144	4498	674	4169	2288	13671	1191	17515	24677	37700
NC YTD Tot	11	383	15	315	15	1845	41	2068	118	11554

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - August 89

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	49	4143	0	0	0	0	0	0	0	0
301030	29	1928	0	0	0	0	0	0	0	0
301050	10	857	0	0	0	0	0	0	0	0
301070	15	238	0	0	0	0	0	0	0	0
8457100015	166	14412	1	51	21	1060	0	0	0	0
100025	19	4247	0	0	0	0	0	0	0	0
100035	86	9983	0	0	0	0	0	0	0	0
100045	3	2345	0	0	0	0	0	0	0	0
200010	6	1583	0	0	0	0	0	0	0	0
200090	2	227	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	2	570	0	0	0	0	0	0	0	0
8458110010	26	3428	0	0	0	6	0	0	0	0
110030	240	17129	7	429	0	0	0	0	0	0
110050	59	8121	0	0	0	0	0	0	0	0
110090	0	0	1	102	0	0	0	0	0	0
190030	0	0	14	132	41	397	33	198	0	0
190050	3	608	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	8	159	1	28	0	0	0	0	0	0
911060	4	698	0	0	0	0	0	0	0	0
911080	7	688	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	4	315	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	3	379	14	852	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	45	3165	0	0	0	0	0	0	0	0
290040	25	2999	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	3	32	12	48
290070	1	7	0	0	0	0	24	94	0	0
290090	3	54	0	0	0	0	30	128	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	2	931	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	1	146	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	5	99	0	0	0	0	0	0	0	0
400040	2	467	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	1	161	0	0	0	0	0	0	0	0
400080	2	119	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	128	826	0	0
590030	5	1604	0	0	0	0	51	463	1	25
610080	3	841	0	0	2	83	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	5	198	0	0	0	0	0	0	0	0
690090	5	2025	1	6	0	0	6	433	1	82
700020	18	858	0	0	0	0	0	0	0	0
700080	35	619	0	0	0	0	0	0	2	8
8460110080	4	894	0	0	0	0	0	0	0	0
190010	35	322	0	0	31	326	0	0	0	0
190050	19	1721	0	0	0	0	2	184	0	0
210080	95	9374	0	0	0	0	0	0	0	0
290010	1	44	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	24	3319	0	0	0	0	0	0	13	108
310080	0	0	0	0	0	0	0	0	1	42
390050	2	23	0	0	0	0	0	0	0	0
400060	2	187	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	2	218	0	0	0	0	0	0	0	0
900080	15	383	24	147	0	0	0	0	20	54
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	3	759	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	1	172	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	8	2118	0	0	0	0	0	0	0	0
500050	5	133	0	0	0	0	0	0	0	0
500090	23	600	0	0	0	0	0	0	0	0
9000000001	9	38	0	0	0	0	0	0	0	0
9800000001	47	3279	1	70	0	0	0	0	1	3
9900000001	3931	774	395	385	0	0	0	0	145	257
Month Tot	5124	110565	459	2200	95	1867	278	2505	196	627
Y-T-D Tot	40495	750490	4890	16852	542	10367	1502	13804	1961	7688
NC YTD Tot	5816	624254	119	7349	110	5406	442	4419	7	1506

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - August 89

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	3	322	0	0	0	0	0	0	0	0
301030	22	2123	1	14	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	13	771	10	138	0	0	6	193	0	0
8457100015	0	0	5	565	21	1077	6	1002	21	814
100025	0	0	0	0	2	123	0	0	2	162
100035	0	0	0	0	0	0	20	2505	0	0
100045	5	139	10	613	0	0	2	815	3	210
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	4	1808	0	0
300090	2	324	0	0	0	0	5	1964	0	0
8458110010	0	0	2	110	1	281	7	1384	0	0
110030	0	0	2	93	0	0	0	0	0	0
110050	0	0	3	167	0	0	2	98	0	0
110090	0	0	0	0	0	0	1	1119	0	0
190030	0	0	107	886	71	747	0	0	43	270
190050	0	0	3	27	0	0	1	16	2	46
190070	3	78	5	38	0	0	0	0	0	0
190090	0	0	2	20	23	226	1	16	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	2	139	0	0	0	0	0	0	13	63
995090	2	91	10	27	5	23	2	38	48	696
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	3	2	321	1	17
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	32	186	0	0	0	0	13	68
290070	0	0	0	0	0	0	7	59	0	0
290090	1	28	1	19	1	9	1	157	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	13	192
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	3	162	2	47
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	25	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	31	3	11	5	556
510080	1	237	26	228	17	448	0	0	2	30
590030	0	0	155	952	60	230	4	223	60	381
610080	0	0	22	317	8	99	1	578	28	51
690050	0	0	12	55	0	0	0	0	0	0
690070	0	0	2	92	0	0	0	0	0	0
690090	3	8	0	0	6	131	1	9	23	96
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	3	532	0	0	0	0	2	23	0	0
190010	0	0	29	90	0	0	0	0	0	0
190050	0	0	130	911	1	1	6	185	6	66
210080	1	235	1	58	0	0	31	3174	0	0
290010	3	502	0	0	2	27	30	152	0	0
290030	0	0	0	0	0	0	9	2135	10	48
290050	2	373	12	137	4	23	9	902	4	44
310080	0	0	14	98	3	7	3	80	0	0
390050	8	118	17	80	12	95	17	200	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	8	0	0	1	17	3	794	0	0
900060	0	0	0	0	0	0	1	181	0	0
900080	8	211	7	59	17	879	11	901	2	31
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	2	26	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	4	110	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	60	0	0
401050	0	0	0	0	0	0	14	3474	0	0
— 401070	0	0	0	0	0	0	1	67	0	0
401090	0	0	0	0	5	2	17	11	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	2	13	0	0	11	148	0	0
500090	0	0	25	163	3	13	59	1185	26	114
9000000001	2	217	0	0	6	45	1	75	8	44
9800000001	1	7	7	52	75	805	13	568	1136	166
9900000001	22	6	48780	6763	325	195	421	246	13046	821
Month Tot	108	6470	49434	12973	671	5536	746	27202	14517	5033
Y-T-D Tot	1084	57171	282470	83877	5339	48171	7871	181756	83176	42043
NC YTD Tot	150	22126	722	17676	501	21251	622	94165	276	8219

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

RELEASED: October 25, 1989

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	2716	28429	54	2148
8462100030	Headers and upsetters, including cold headers	70	7084	6	450
100050	Forging or die stamping machines, and hammers, n.e.c.	1068	56311	88	3702
210080	Bending, folding, straight. or flat. mach., incl presses, NC	784	25952	61	6485
290030	Press brakes, non-NC	268	7070	20	419
290040	Bending rolls, non-NC	61	1613	4	85
290050	Bending, folding, straight., or flat., n.e.c., non-NC	748	31442	68	1881
310080	Shearing machines, NC	33	3996	3	356
390050	Shearing machines, non-NC	500	10260	45	1107
410080	Punching or notching mach., incl. comb. punch & shear, NC	272	28020	23	3121
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	428	9990	35	867
910060	Hydraulic presses, NC	26	2585	1	185
910090	Hydraulic presses, non-NC	306	19010	64	1270
990030	Presses, n.e.c., NC	38	4766	5	36
990040	Presses, mechanical, non-NC	66	23337	0	0
990060	Presses, n.e.c., non-NC	825	66973	78	22136
8463100080	Draw benches for bars, tubes, profiles, wire or the like	35	4938	4	235
200080	Thread rolling machines	38	2337	9	942
300080	Machines for working wire	446	20265	113	5006
900080	Metal forming machine tools, n.e.c.	549	20261	58	2561
9[illegible]0000002	Used or rebuilt machine tools	574	10433	74	1103
9900000002	Machine tools valued at less than $2,500	15925	4895	2285	616

	UNITS	$000	UNITS	$000
Forming Total			3098	54719
Y-T-D Forming Total	25776	389966		
NC Y-T-D Forming Total	1153	65319		
Cutting and Forming Totals:				
Monthly Total			78461	240276
Y-T-D Total	484080	1679738		
NC Y-T-D Total	10118	887855		

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
1000000000	Machine tool parts and accessories	0	419372	0	41602
2710003[illegible]70	Quenching or cutting oils	0	60	0	16
8428900010	Industrial robots for lifting, handling, loading or unload	1429	31429	173	3280
8456101010	Laser, light or photon beam for working metal, NC	59	8794	12	1913
101020	Laser, light or photon beam for working metal, non-NC	30	2567	6	697
105000	Laser, light or photon beam for other materials	1133	3367	8	23
201010	Ultrasonic processes for working metal, NC	6	952	1	305
201050	Ultrasonic processes for working metal, non-NC	11	25	0	0
205000	Ultrasonic processes for working other materials	133	447	3	5
8477106010	Injection molding mach., for rubber or oth. thermosetting	692	65944	109	8832
106050	Injection molding mach., for thermoplastics	1824	189420	261	28661
200010	Extruders for rubber or other thermosetting materials	147	16710	28	1155
200050	Extruders for processing thermoplastics	493	29543	61	2928
300000	Blow molding machines	209	33003	18	6047
400000	Vacuum-molding and other thermoforming machines	184	14080	7	62
8479899040	Industrial robots, n.e.c.	12640	95353	297	6510
908040	Industrial robot parts	0	23712	0	3022
8537100030	Numerical controls for controlling machine tools	7537	34376	597	2617
9024100000	Machines and appliances for testing metals	0	9504	0	641
9031100000	Machines for balancing mechanical parts	0	5955	0	1581
300000	Profile projectors	0	3493	0	350
9032810020	Industrial process control instr., hydraulic	131000	1871	26780	323
810060	Industrial process control instr., pneumatic	82998	2088	7126	486

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	2	17	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	1	2	4	6	30	1	10	2	34
210080	0	0	0	0	0	0	1	12	0	0
290030	0	0	0	0	13	293	0	0	0	0
290040	0	0	0	0	0	0	0	0	2	53
290050	0	0	0	0	21	383	1	9	10	129
310080	0	0	0	0	0	0	0	0	0	0
390050	9	141	0	0	7	380	0	0	6	49
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	3	143	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	3	1	0	0	3	11	1	117	1	29
990030	0	0	0	0	1	7	0	0	1	17
990040	0	0	0	0	0	0	0	0	0	0
990060	2	1220	14	4243	29	692	0	0	7	53
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	16	698	0	0	4	56	0	0	9	1560
900080	0	0	6	16	3	378	4	34	9	1129
9800000002	11	377	0	0	7	138	0	0	3	73
9900000002	0	0	216	103	5	7	0	0	44	52
Month Tot	42	2439	238	4365	104	2536	8	182	94	3180
Y-T-D Tot	424	15736	249	4509	3590	34921	98	1170	852	17133
NC YTD Tot	37	1380	0	0	14	774	9	231	11	921
C&F Month	103	2527	307	5056	246	3839	179	1487	3386	10371
C&F Y-T-D	568	20234	923	8677	5878	48592	1289	18685	25529	54833
C&F NC YTD	48	1763	15	315	29	2618	50	2300	129	12476

Other Manufacturing Technology

1000000000	0	531	0	28	0	5467	0	592	0	1782
2710003070	0	0	0	0	0	8	0	0	0	0
8428900010	0	0	0	0	21	301	0	0	0	0
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	1	7	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	1	22	0	0	8	927	3	290	11	746
106050	0	0	0	0	31	3400	0	0	21	877
200010	0	0	0	0	0	0	2	257	5	151
200050	0	0	0	0	7	444	0	0	0	0
300000	0	0	0	0	4	91	1	8	1	494
400000	0	0	0	0	0	0	0	0	0	0
8479899040	0	0	0	0	1	12	1	67	3	121
908040	0	0	0	0	0	10	0	46	0	127
8537100030	0	0	0	0	2	1	0	0	1	99
9024100000	0	0	0	0	0	5	0	0	0	12
9031100000	0	0	0	0	0	11	0	9	0	88
300000	0	0	0	0	0	0	0	0	0	6
9032810020	0	0	0	0	1	4	0	0	0	0
810060	0	0	0	0	1	4	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	48	1886	0	0	0	0	0	0	0	0
8462100030	4	420	0	0	0	0	0	0	0	0
100050	43	3477	0	0	2	3	0	0	0	0
210080	52	5716	0	0	0	0	0	0	0	0
290030	2	71	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	10
290050	16	1249	0	0	0	0	0	0	2	20
310080	2	302	0	0	0	0	0	0	0	0
390050	9	422	0	0	0	0	0	0	0	0
410080	9	1421	0	0	0	0	0	0	0	0
490050	5	70	0	0	0	0	10	78	2	23
910060	0	0	0	0	0	0	0	0	0	0
910090	21	403	0	0	0	0	0	0	1	1
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	17	14836	0	0	0	0	0	0	1	78
8463100080	0	0	0	0	0	0	0	0	0	0
200080	2	684	0	0	0	0	1	31	0	0
300080	60	2157	0	0	0	0	0	0	0	0
900080	17	244	0	0	0	0	1	26	0	0
9800000002	12	44	0	0	0	0	2	45	0	0
9900000002	72	110	0	0	0	0	30	16	7	14
Month Tot	391	33512	0	0	2	3	44	195	14	145
Y-T-D Tot	3736	222503	60	175	53	726	473	1937	236	5956
NC YTD Tot	752	38742	0	0	0	0	1	50	6	492
C&F Month	5515	144077	459	2200	97	1870	322	2700	210	772
C&F Y-T-D	44231	972993	4950	17026	595	11093	1975	15741	2197	13644
C&F NC YTD	6568	662996	119	7349	110	5406	443	4469	13	1998
Other Manufacturing Technology										
1000000000	0	12415	0	100	0	760	0	393	0	446
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	67	2181	0	0	0	0	0	0	3	186
8456101010	8	1325	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	1	305	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	3	5	0	0	0	0	0	0	0	0
8477106010	53	4142	1	53	0	0	0	0	0	0
106050	101	16711	4	192	0	0	3	12	0	0
200010	5	413	0	0	0	0	0	0	0	0
200050	6	251	1	45	0	0	0	0	0	0
300000	5	2162	0	0	0	0	0	0	0	0
400000	5	41	0	0	0	0	0	0	0	0
8479899040	244	5171	0	0	0	0	0	0	6	162
908040	0	519	0	4	0	3	0	0	0	78
8537100030	587	2478	0	0	0	0	0	0	0	0
9024100000	0	210	0	0	0	0	0	0	0	25
9031100000	0	1427	0	0	0	0	0	0	0	0
300000	0	107	0	0	0	0	0	0	0	0
9032810020	0	0	5500	30	0	0	0	0	0	0
810060	20	181	2500	8	0	0	0	0	611	148

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	2	116	2	129
8462100030	0	0	2	39	0	0	0	0	0	0
100050	0	0	2	3	2	12	3	21	24	106
210080	2	154	0	0	0	0	3	502	3	101
290030	0	0	0	0	0	0	0	0	5	55
290040	0	0	1	22	0	0	0	0	0	0
290050	1	4	7	22	0	0	2	26	8	40
310080	0	0	0	0	0	0	0	0	1	55
390050	0	0	0	0	2	11	11	91	1	14
410080	1	242	0	0	1	180	12	1278	0	0
490050	0	0	8	256	1	14	2	263	4	20
910060	0	0	0	0	0	0	1	185	0	0
910090	2	16	8	60	0	0	3	570	21	61
990030	0	0	0	0	0	0	3	13	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	2	26	1	10	5	977	0	0
8463100080	0	0	0	0	0	0	4	235	0	0
200080	0	0	4	37	0	0	2	190	0	0
300080	15	83	0	0	2	30	5	416	2	6
900080	2	584	5	20	4	17	7	114	0	0
9800000002	0	0	0	0	23	232	15	124	1	69
9900000002	42	18	329	123	19	22	27	11	1494	140
Month Tot	65	1101	368	608	55	529	107	5131	1566	794
Y-T-D Tot	1327	10665	6651	5902	644	9709	1203	46922	6180	12002
NC YTD Tot	26	3009	23	565	6	471	198	14343	70	4341
C&F Month	173	7571	49802	13581	726	6065	853	32333	16083	5827
C&F Y-T-D	2411	67836	289121	89780	5983	57880	9074	228678	89356	54045
C&F NC YTD	176	25135	745	18241	507	21722	820	108508	346	12560

Other Manufacturing Technology

1000000000	0	1704	0	2444	0	2369	0	8641	0	3930
2710003070	0	0	0	0	0	0	0	8	0	0
8428900010	0	0	0	0	2	158	73	288	7	167
8456101010	3	512	0	0	0	0	0	0	1	77
101020	0	0	0	0	3	182	3	515	0	0
105000	0	0	0	0	0	0	1	13	6	4
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	3	77	6	346	0	0	18	1997	5	232
106050	5	902	10	386	1	15	56	4195	29	1972
200010	5	89	2	66	7	51	2	127	0	0
200050	0	0	1	43	13	969	28	1016	5	161
300000	0	0	0	0	0	0	6	3092	1	200
400000	0	0	0	0	2	20	0	0	0	0
8479899040	0	0	0	0	5	71	13	779	24	127
908040	0	66	0	5	0	162	0	678	0	1324
8537100030	1	9	0	0	5	26	1	4	0	0
9024100000	0	143	0	5	0	71	0	49	0	121
9031100000	0	0	0	12	0	0	0	18	0	15
300000	0	0	0	0	0	235	0	2	0	0
9032810020	895	23	0	0	1551	8	105	139	18728	120
810060	0	0	3900	35	0	0	47	94	47	14

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	435	839	3	3	438	842
Bulgaria	0	0	0	0	0	0
Czechoslovakia	6	76	0	0	6	76
Denmark	14	84	3	11	17	95
East Germany	6	183	0	0	6	183
Finland	0	0	9	42	9	42
Hungary	0	0	0	0	0	0
Ireland	200	54	0	0	200	54
Luxembourg	0	0	0	0	0	0
Netherlands	70	498	8	64	78	562
Norway	1	17	0	0	1	17
Poland	49	476	0	0	49	476
Portugal	0	0	9	112	9	112
Romania	0	0	0	0	0	0
USSR	0	0	0	0	0	0
Yugoslavia	23	83	1	47	24	130
Oth Europe	0	0	20	39	20	39
TOTAL	6327	53236	482	13219	6809	66454
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	226	49	67	112	293	161
Oth N & C Am.	0	0	0	0	0	0
TOTAL	368	1352	171	2648	539	4000
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	69	691	238	4365	307	5056
OCEANIA						
Australia	0	0	0	0	0	0
New Zealand	0	0	3	60	3	60
Oth Oceania	0	0	0	0	0	0
TOTAL	0	0	3	60	3	60

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	13423	1338	1428	33	14851	1372
Hong Kong	20	116	1	69	21	185
India	24	193	0	0	24	193
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	19	1022	12	145	31	1167
Malaysia	0	0	2	58	2	58
Pakistan	0	0	0	0	0	0
Philippines	1	4	0	0	1	4
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	68599	130278	2204	34428	70803	164706
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

RELEASED: October 25, 1989

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	315	3289	3	215
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	17	2689	2	283
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	4	867	0	0
100035	Horiz. mach. ctrs., ATC	37	13173	3	1283
100045	Mach. ctrs., n.e.c.	126	10085	29	2125
200010	Unit construction mach. (single station transfer), NC	3	2683	0	0
200090	Unit construction mach. (single station transfer), non-NC	4	974	1	90
300010	Multi-station transfer machines, NC	4	4934	3	4767
300090	Multi-station transfer machines, non-NC	13	2913	0	0
8458110010	Horiz. lathes, multiple spindle, NC	3	534	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	117	9481	11	809
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	27	4581	1	206
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	4	385	0	0
190030	Horiz. engine or toolroom lathes, non-NC	71	1725	11	360
190050	Automatic bar and/or chucking mach., single spindle, non-NC	16	59	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	31	2433	4	185
190090	Horiz. lathes, n.e.c., non-NC	160	2177	17	259
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	5	863	1	241
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	1	273	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	9	898	2	127
991050	Vertical turret lathes, non-NC	20	650	2	53
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	52	2843	5	254
8459100000	Way-type unit head machines	13	2814	2	169
210080	Other drilling machines, NC	68	5147	14	1074
290040	Drilling machines, multiple spindle, non-NC	18	1039	1	88
290050	Drilling machines, radial, non-NC	21	764	2	92
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	25	930	4	199
290090	Drilling machines, n.e.c., non-NC	83	3481	21	122
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	1799	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	366	0	0
310070	Boring-milling mach., n.e.c., NC	28	2160	10	409
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	30	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	100	2012	1	10
400040	Boring machines, vertical, NC	2	1182	0	0
400050	Boring machines, vertical, non-NC	27	967	9	645
400070	Boring machines, n.e.c., NC	1	1350	0	0
400080	Boring machines, n.e.c., non-NC	39	2419	6	307
510080	Milling machines, knee type, NC	22	1466	2	157
590030	Milling machines, knee type, non-NC	35	1779	5	142
610080	Milling machines, excl. knee type, n.e.c., NC	39	4853	2	201
690050	Milling machines, profile, dup., or die sinking, non-NC	21	1095	1	103
690070	Milling machines, bed type, non-NC	50	6633	8	490
690090	Milling machines, n.e.c., non-NC	249	5565	21	409
700020	Threading or tapping machines, n.e.c., NC	18	479	11	304
700080	Threading or tapping machines, n.e.c., non-NC	187	5497	17	665
8460110080	Flat surface grinding mach., NC	107	7742	17	1019
190010	Flat surface grinding mach., recip.-table type, non-NC	58	859	4	58
190050	Flat surface grinding mach., n.e.c., non-NC	85	7964	9	2737
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	256	20403	67	4280
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	31	3322	0	0
290030	Grinding mach., internal cylindrical, non-NC	40	3534	1	47
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	364	16979	27	837
310080	Sharpening machines (tool & cutter grinding), NC	28	1208	4	440
390050	Sharpening machines (tool & cutter grinding), non-NC	769	7374	126	1381
400060	Honing or lapping machines, NC	2	58	0	0
400080	Honing or lapping machines, non-NC	509	6414	55	647
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	27	2695	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	358	9254	39	1184
8461100060	Planing machines, NC	6	3712	0	0
100080	Planing machines, non-NC	115	3919	15	197
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	37	1106	3	284
300060	Broaching machines, NC	1	248	0	0
300080	Broaching machines, non-NC	42	2012	20	647
401050	Gear hobbers	31	4657	2	401
401070	Gear shapers	57	4194	6	179
401090	Gear cutting machines, n.e.c.	52	10634	5	1944
405060	Gear grinding or finishing machines	44	5993	5	900
500050	Sawing or cutting-off machines, NC	25	1252	0	0
500090	Sawing or cutting-off machines, non-NC	671	8829	77	760
9000000001	Metal cutting machine tools, n.e.c.	177	9117	32	1809
9800000001	Used or rebuilt machine tools	4479	35762	607	4962
9900000001	Machine tools valued at less than $2,500	26343	10014	4437	857
	Cutting Total			5790	42412
	Y-T-D Cutting Total	36806	311590		
	NC Y-T-D Cutting Total*	1032	111959		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	175
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	105	2	204	1	80
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	1	92
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	2	35
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	3	12
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	102	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	120
290040	0	0	0	0	0	0	0	0	1	88
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	17	52
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	50
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	12
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	6	307
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	20	1	16
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	1	103	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	8	490
690090	0	0	0	0	0	0	0	0	7	195
700020	0	0	0	0	0	0	0	0	1	43
700080	0	0	0	0	0	0	0	0	2	6
8460110080	0	0	0	0	0	0	0	0	1	24
190010	0	0	0	0	0	0	0	0	1	7
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	8	390	3	101
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	11	122
310080	0	0	0	0	0	0	0	0	0	0
390050	1	580	0	0	0	0	5	13	9	65
400060	0	0	0	0	0	0	0	0	0	0
400080	4	28	0	0	0	0	0	0	4	37
900060	0	0	0	0	0	0	0	0	0	0
900080	1	3	0	0	0	0	0	0	5	39
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	3	44
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	19	521
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	3	819
500050	0	0	0	0	0	0	0	0	0	0
500090	1	9	0	0	0	0	1	26	10	121
9000000001	0	0	0	0	0	0	0	0	3	104
9800000001	19	56	0	0	6	353	5	35	44	495
9900000001	0	0	8	5	1	2	0	0	3455	212
Month Tot	27	777	9	108	8	460	22	687	3626	4485
Y-T-D Tot	652	7425	50	983	165	5226	282	6641	16926	39199
NC YTD Tot*	10	987	4	380	30	3341	40	2842	142	11764

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	752	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	1	560	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	4	371	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	2	200	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	1	12	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	55	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	2	535	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	2	132
700020	0	0	0	0	0	0	0	0	0	0
700080	2	410	0	0	1	217	0	0	0	0
8460110080	1	31	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	2	428	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	67	436
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	12	131	0	0	0	0	7	89
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	10	153	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	125
401050	1	361	0	0	0	0	0	0	0	0
401070	0	0	0	0	5	150	0	0	0	0
401090	0	0	0	0	2	702	0	0	2	1127
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	8	50	2	33
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	9	209	1	2	0	0	0	0	4	14
9900000001	0	0	0	0	0	0	0	0	13	8
Month Tot	20	2926	29	724	8	1069	9	610	98	1964
Y-T-D Tot	458	18805	603	9521	179	8026	97	3774	393	10054
NC YTD Tot*	83	11356	47	6608	4	1339	5	1646	7	1146

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	40	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	1	81	0	0	0	0	0	0
100045	0	0	0	0	0	0	3	139	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	90	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	20	0	0	0	0	1	3	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	4	185	0	0	0	0	0	0
190090	2	64	0	0	0	0	7	115	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	1	241	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	2	53	0	0
995090	0	0	0	0	0	0	4	242	0	0
8459100000	0	0	0	0	0	0	2	169	0	0
210080	0	0	2	116	0	0	2	88	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	9	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	3	15	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	9	359	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	6	98	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	1	126	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	11	75	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	7	19	0	0	2	5	0	0
8460110080	0	0	0	0	0	0	5	303	0	0
190010	0	0	0	0	0	0	2	13	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	10	694	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	14	287	0	0
310080	1	45	0	0	0	0	0	0	0	0
390050	9	62	5	27	0	0	13	95	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	12	1	14	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	5	216	2	392	0	0	6	60	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	47	0	0	0	0	9	82	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	2	274	0	0	0	0	1	10	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	1	29	0	0	0	0	0	0
401090	0	0	0	0	1	115	0	0	0	0
405060	0	0	2	81	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	13	66	9	119	0	0	6	59	5	25
9000000001	10	530	1	503	0	0	13	500	0	0
9800000001	66	516	9	125	8	66	353	1608	2	10
9900000001	93	38	23	28	0	0	200	145	10	16
Month Tot	218	2713	68	1956	10	195	674	4648	17	51
Y-T-D Tot	2319	21116	1316	27979	69	724	4787	43388	390	3426
NC YTD Tot*	85	6084	58	9281	2	69	120	9565	19	1900

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	2	116	0	0	0	0	4	309	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	1	22	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	2	55	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	1	49	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	1	73	0	0	0	0	0	0	1	166
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	1	45
390050	0	0	0	0	7	44	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	18	1	18	0	0	3	13	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	23	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	2	14	0	0
9000000001	0	0	0	0	0	0	0	0	1	115
9800000001	2	333	4	5	11	27	0	0	0	0
9900000001	10	6	0	0	20	13	12	10	0	0
Month Tot	20	624	5	23	39	134	22	367	3	326
Y-T-D Tot	626	5908	218	2773	228	2754	523	5650	84	1876
NC YTD Tot*	29	2144	1	677	15	1592	15	1225	18	655

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	1	115	0	0	0	0	0	0	1	168
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	1	450	0	0
100045	7	141	0	0	0	0	3	204	5	267
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	3	4767	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	6	346	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	1	206	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	3	83	0	0	0	0	0	0	2	18
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	4	45	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	25
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	9	750
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	83
290070	4	199	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	10	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	1	124	0	0	0	0	0	0	1	33
590030	1	36	0	0	0	0	0	0	2	70
610080	0	0	0	0	0	0	0	0	1	76
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	7
700020	0	0	0	0	0	0	8	206	0	0
700080	0	0	0	0	0	0	0	0	3	9
8460110080	5	173	0	0	0	0	0	0	4	439
190010	0	0	0	0	0	0	0	0	1	38
190050	0	0	0	0	0	0	6	2159	1	339
210080	15	961	14	491	0	0	16	1512	1	131
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	47	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	2	350	0	0
390050	0	0	0	0	0	0	8	46	2	15
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	19	283	1	6
900060	0	0	0	0	0	0	0	0	0	0
900080	2	119	0	0	1	5	3	156	3	19
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	24	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	1	40
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	10	70	0	0	0	0	3	32	7	137
9000000001	1	3	0	0	0	0	0	0	3	55
9800000001	13	397	0	0	10	86	2	12	39	611
9900000001	288	120	0	0	0	0	43	35	261	218
Month Tot	365	7724	14	491	12	100	116	5697	351	3553
Y-T-D Tot	1923	34929	20	1220	246	4675	1253	21699	2999	23818
NC YTD Tot*	134	20937	14	491	5	283	59	8515	86	7132

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

RELEASED: October 25, 1989

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	393	6543	33	366
8462100030	Headers and upsetters, including cold headers	51	11401	4	1289
100050	Forging or die stamping machines, and hammers, n.e.c.	443	14445	73	1683
210080	Bending, folding, straight. or flat. mach., incl presses, NC	241	15953	15	1285
290030	Press brakes, non-NC	27	1196	1	50
290040	Bending rolls, non-NC	45	1382	0	0
290050	Bending, folding, straight., or flat., n.e.c., non-NC	403	15037	64	2837
310080	Shearing machines, NC	39	3142	3	148
390050	Shearing machines, non-NC	121	2751	25	386
410080	Punching or notching mach., incl. comb. punch & shear, NC	105	17585	18	3633
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	557	17200	72	2224
910060	Hydraulic presses, NC	65	3529	11	681
910090	Hydraulic presses, non-NC	369	16311	30	3183
990030	Presses, n.e.c., NC	36	4333	4	225
990040	Presses, mechanical, non-NC	128	5752	23	652
990060	Presses, n.e.c., non-NC	415	23809	50	3678
8463100080	Draw benches for bars, tubes, profiles, wire or the like	211	4561	3	48
200080	Thread rolling machines	29	2510	0	0
300080	Machines for working wire	694	23464	80	2385
900080	Metal forming machine tools, n.e.c.	1645	76509	161	10990
9800000002	Used or rebuilt machine tools	2540	51908	193	4716
9900000002	Machine tools valued at less than $2,500	4319	3221	622	419

Forming Total			1485	40880
Y-T-D Forming Total	12876	322542		
NC Y-T-D Forming Total	486	44543		
Cutting and Forming Totals:				
Monthly Total			7275	83292
Y-T-D Total	49682	634132		
NC Y-T-D Total*	1518	156501		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	477556	0	72552
2710003070	Quenching or cutting oils	0	7569	0	769
8428900010	Industrial robots for lifting, handling, loading or unload	685	10106	74	1090
8456100000	Laser, light or photon beam for working any material	1973	30710	56	5872
200000	Ultrasonic process for working any material	78	469	1	26
8477106010	Injection molding mach., for rubber or oth. thermosetting	148	13306	12	805
106050	Injection molding mach., for thermoplastics	296	34218	33	2435
200010	Extruders for rubber or other thermosetting materials	172	7931	14	1890
200050	Extruders for processing thermoplastics	683	27717	67	3874
300000	Blow molding machines	284	21844	39	822
400000	Vacuum-molding and other thermoforming machines	1053	11602	84	1219
8479899040	Industrial robots, n.e.c.	1697	23051	163	3633
900040	Industrial robot parts	0	9344	0	1496
8537100030	Numerical controls for controlling machine tools	8269	28436	218	3109
9024100000	Machines and appliances for testing metals	0	51350	0	5069
9031100000	Machines for balancing mechanical parts	0	15895	0	1655
300000	Profile projectors	0	5818	0	1122
9032810040	Industrial process control instr., hydraulic or pneumatic	407786	28766	57593	4955

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	28	0	0	0	0	0	0	19	190
8462100030	0	0	0	0	0	0	1	200	0	0
100050	1	12	0	0	1	27	0	0	6	116
210080	0	0	0	0	0	0	0	0	1	49
290030	0	0	0	0	0	0	0	0	1	50
290040	0	0	0	0	0	0	0	0	0	0
290050	3	68	0	0	0	0	0	0	9	147
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	11	185
410080	0	0	0	0	0	0	0	0	7	1170
490050	0	0	0	0	0	0	0	0	7	72
910060	3	49	0	0	0	0	0	0	0	0
910090	0	0	0	0	3	487	0	0	4	88
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	7	166	0	0
990060	0	0	0	0	0	0	1	163	2	60
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	6	1	13	0	0	0	0	4	56
900080	0	0	0	0	0	0	5	904	2	15
9800000002	0	0	0	0	0	0	0	0	24	259
9900000002	0	0	0	6	0	0	0	0	191	129
Month Tot	11	164	1	13	4	515	14	1433	288	2588
Y-T-D Tot	360	5036	106	662	96	2312	96	5333	2028	28597
NC YTD Tot	21	1027	0	0	0	0	9	687	93	9543
C&F Month	38	942	10	121	12	975	36	2120	3914	7073
C&F Y-T-D	1012	12461	156	1645	261	7538	378	11974	18954	67796
C&F NC YTD*	31	2014	4	380	30	3341	49	3529	235	21307

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1398	0	334	0	546	0	712	0	8189
2710003070	0	49	0	0	0	0	0	8	0	150
8428900010	0	0	0	0	0	0	0	0	24	214
8456100000	0	0	1	29	3	43	0	0	6	287
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	146
106050	0	0	0	0	2	97	0	0	13	967
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	2	43	0	0	5	138
300000	0	0	0	0	0	0	1	14	1	23
400000	0	0	0	0	0	0	0	0	20	386
8479899040	0	0	0	0	0	0	0	0	20	277
900040	0	2	0	0	0	10	0	0	0	38
8537100030	4	43	1	8	0	0	0	0	8	85
9024100000	0	124	0	0	0	168	0	46	0	905
9031100000	0	0	0	0	0	0	0	0	0	154
300000	0	0	0	0	0	0	0	0	0	122
9032810040	1869	210	247	21	217	11	1430	72	3099	299

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	4	88	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	29
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	55	1	5	0	0	0	0	1	14
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	1	53	2	70	0	0	0	0
910060	3	85	0	0	0	0	0	0	0	0
910090	0	0	2	19	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	22	643	2	85	2	11	0	0	2	76
900080	0	0	1	4	0	0	0	0	1	19
9800000002	0	0	0	0	0	0	0	0	0	0
9900000002	0	0	0	0	0	0	14	12	4	4
Month Tot	26	783	7	165	8	168	14	12	9	141
Y-T-D Tot	233	8022	320	5341	87	6565	25	152	166	6383
NC YTD Tot	21	522	4	392	4	1067	1	15	4	2278
C&F Month	46	3709	36	889	16	1237	23	622	107	2105
C&F Y-T-D	691	26827	923	14862	266	14591	122	3927	559	16437
C&F NC YTD*	104	11877	51	7000	8	2406	6	1661	11	3424

Other Manufacturing Technology

1000000000	0	1856	0	1027	0	258	0	16	0	1022
2710003070	0	0	0	23	0	0	0	7	0	0
8428900010	16	159	0	0	0	0	0	0	0	0
8456100000	6	466	0	0	1	34	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	69	0	0	0	0	0	0
106050	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	1	43	0	0	0	0
400000	2	113	0	0	0	0	1	11	0	0
8479899040	0	0	1	248	2	294	0	0	6	149
900040	0	0	0	22	0	59	0	0	0	0
8537100030	4	234	17	328	0	0	0	0	10	113
9024100000	0	2	0	116	0	82	0	0	0	92
9031100000	0	18	0	6	0	286	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	12
9032810040	2652	619	10453	547	406	14	0	0	1961	230

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	55	0	0
8462100030	1	323	0	0	0	0	0	0	0	0
100050	6	128	1	15	0	0	39	899	0	0
210080	0	0	10	1034	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	22	29	788	0	0	6	144	0	0
310080	3	148	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	7	37	0	0
410080	0	0	1	78	0	0	2	1236	5	529
490050	16	183	5	64	0	0	8	43	0	0
910060	1	50	0	0	1	17	0	0	0	0
910090	0	0	4	38	0	0	11	89	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	86	0	0	5	159	0	0
990060	0	0	1	14	0	0	31	864	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	11	0	0	0	0	5	53	0	0
900080	2	33	7	1046	0	0	12	146	4	22
9800000002	2	61	4	78	0	0	74	864	1	12
9900000002	130	23	0	0	0	0	92	86	80	68
Month Tot	164	983	63	3242	1	17	293	4675	90	631
Y-T-D Tot	713	35374	772	44205	22	1340	2439	29749	356	5651
NC YTD Tot	91	7064	36	3259	6	922	39	3122	19	2326
C&F Month	382	3696	131	5198	11	212	967	9322	107	682
C&F Y-T-D	3032	56490	2088	72185	91	2064	7226	73138	746	9077
C&F NC YTD*	176	13148	94	12541	8	991	159	12687	38	4226

Other Manufacturing Technology

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	4279	0	1788	0	1048	0	4926	0	587
2710003070	0	55	0	34	0	4	0	30	0	4
8428900010	0	0	0	0	0	0	0	0	0	0
8456100000	15	1655	1	303	4	840	1	254	1	56
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	7	400	0	0
106050	1	160	0	0	0	0	8	392	0	0
200010	1	819	7	957	0	0	1	5	0	0
200050	17	145	0	0	0	0	11	296	0	0
300000	0	0	18	475	0	0	7	62	0	0
400000	13	47	2	116	0	0	14	355	0	0
8479899040	7	1648	0	0	0	0	1	3	0	0
900040	0	701	0	4	0	0	0	15	0	0
8537100030	4	52	7	108	1	10	0	0	4	108
9024100000	0	819	0	334	0	17	0	348	0	28
9031100000	0	54	0	51	0	15	0	257	0	0
300000	0	599	0	39	0	0	0	0	0	0
9032810040	4678	573	517	73	3	4	675	103	4482	237

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	125	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	13	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	55	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	7	70	1	13	0	0	0	0	1	25
910060	0	0	0	0	0	0	2	438	0	0
910090	0	0	1	124	2	127	0	0	0	0
990030	1	110	0	0	1	65	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	31	3	64	0	0	0	0	1	108
900080	1	29	0	0	0	0	39	5158	0	0
9800000002	0	0	0	0	0	0	0	0	5	1194
9900000002	5	11	0	0	0	0	0	0	0	0
Month Tot	15	250	6	325	4	205	42	5651	7	1327
Y-T-D Tot	162	6609	92	3251	39	1180	145	11869	66	3234
NC YTD Tot	15	2546	0	0	8	375	10	1395	5	414
C&F Month	35	874	11	348	43	339	64	6018	10	1653
C&F Y-T-D	788	12517	310	6024	267	3934	668	17519	150	5110
C&F NC YTD*	44	4690	1	677	23	1968	25	2619	23	1069

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000090	0	906	0	449	0	699	0	849	0	363
2710003070	0	42	0	0	0	0	0	127	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8456100000	0	0	0	0	0	0	4	833	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	2	118	0	0	0	0	0	0	0	0
200010	1	60	0	0	0	0	0	0	0	0
200050	0	0	1	200	0	0	10	242	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	4	2	0	0	0	0
8479899040	0	0	8	66	2	15	1	79	0	0
900040	0	0	0	0	0	0	0	9	0	0
8537100030	2	28	4	38	6	76	4	48	2	18
9024100000	0	100	0	8	0	5	0	837	0	41
9031100000	0	52	0	0	0	6	0	5	0	2
300000	0	8	0	0	0	0	0	86	0	0
9032810040	9757	536	362	24	138	14	219	47	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	24	0	0	0	0	5	54	3	14
8462100030	0	0	0	0	0	0	2	767	0	0
100050	2	42	0	0	1	18	1	12	10	200
210080	0	0	0	0	0	0	0	0	3	173
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	22	10	1558
310080	0	0	0	0	0	0	0	0	0	0
390050	1	5	0	0	0	0	0	0	5	103
410080	0	0	0	0	0	0	1	578	2	43
490050	9	1357	0	0	0	0	6	114	9	161
910060	1	42	0	0	0	0	0	0	0	0
910090	1	1078	0	0	1	1125	1	7	0	0
990030	0	0	0	0	0	0	2	50	0	0
990040	10	241	0	0	0	0	0	0	0	0
990060	1	254	0	0	0	0	3	610	11	1713
8463100080	0	0	0	0	0	0	1	7	2	42
200080	0	0	0	0	0	0	0	0	0	0
300080	2	141	0	0	0	0	18	457	15	630
900080	15	170	0	0	0	0	10	739	62	2705
9800000002	10	134	0	0	24	317	4	33	45	1764
9900000002	12	14	0	0	0	0	44	39	50	34
Month Tot	66	3503	0	0	26	1460	99	3489	227	9140
Y-T-D Tot	953	34080	2	108	170	7486	671	17284	2757	52717
NC YTD Tot	49	2555	2	108	3	89	6	904	40	3931
C&F Month	431	11228	14	491	38	1560	215	9186	578	12693
C&F Y-T-D	2876	69009	22	1328	416	12161	1924	38983	5756	76534
C&F NC YTD*	183	23493	16	598	8	372	65	9419	126	11063

Other Manufacturing Technology

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	6650	0	4	0	2421	0	7185	0	25040
2710003070	0	7	0	0	0	0	0	31	0	199
8428900010	14	708	0	0	0	0	0	0	20	9
8456100000	0	0	0	0	0	0	6	947	7	124
200000	0	0	0	0	0	0	0	0	1	26
8477106010	0	0	0	0	0	0	3	190	0	0
106050	2	155	0	0	0	0	4	408	1	139
200010	0	0	0	0	0	0	1	19	3	30
200050	11	2077	0	0	0	0	3	48	7	684
300000	2	35	0	0	9	170	0	0	0	0
400000	1	24	0	0	0	0	18	39	9	126
8479899040	14	288	0	0	0	0	101	566	0	0
900040	0	271	0	0	0	0	0	105	0	260
8537100030	92	1151	0	0	0	0	25	328	23	332
9024100000	0	203	0	56	0	11	0	152	0	575
9031100000	0	109	0	0	0	0	0	7	0	633
300000	0	175	0	0	0	0	0	79	0	3
9032810040	8514	590	0	0	901	241	1661	189	3352	300

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	2	188	4	48	6	236
East Germany	0	0	0	0	0	0
Finland	2	66	0	0	2	66
Greece	4	236	1	5	5	241
Hungary	13	97	0	0	13	97
Iceland	0	0	0	0	0	0
Ireland	2	69	12	1258	14	1327
Luxembourg	0	0	0	0	0	0
Norway	4	10	4	231	8	241
Poland	0	0	2	1423	2	1423
Portugal	0	0	2	165	2	165
Romania	0	0	0	0	0	0
Sweden	6	222	2	43	8	265
Turkey	4	2	5	4	9	6
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	0	0	0	0
TOTAL	737	18266	318	12164	1055	30430
NORTH AND CENTRAL AMERICA						
Bahamas	1	40	0	0	1	40
Barbados	1	2	0	0	1	2
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	11	81	1	10	12	91
Dominican Rep	1	6	10	57	11	63
El Salvador	0	0	0	0	0	0
Guatemala	5	8	23	175	28	183
Haiti	0	0	0	0	0	0
Honduras	0	0	2	43	2	43
Jamaica	5	44	0	0	5	44
Panama	3	68	0	0	3	68
Trinidad	1	5	3	14	4	19
Oth N & C Am.	0	0	0	0	0	0
TOTAL	4328	9386	620	7561	4948	16947
SOUTH AMERICA						
Argentina	164	99	2	10	166	109
Bolivia	0	0	0	0	0	0
Chile	8	72	3	823	11	895
Colombia	16	800	20	144	36	944
Ecuador	0	0	2	40	2	40
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Oth South Am.	4	40	0	0	4	40
TOTAL	226	1798	67	3910	293	5708
OCEANIA						
New Zealand	2	15	1	15	3	29
Oth Oceania	0	0	0	0	0	0
TOTAL	29	792	12	179	41	971

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	2	1634	2	1634
Hong Kong	55	127	56	1076	111	1203
Iran	0	0	0	0	0	0
Iraq	4	450	0	0	4	450
Israel	5	9	7	235	12	244
Jordan	0	0	0	0	0	0
Kuwait	0	0	1	27	1	27
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	1	339	2	77	3	415
Philippines	14	98	7	101	21	200
Qatar	0	0	0	0	0	0
Saudi Arabia	5	265	45	1336	50	1601
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	0	0	0	0	0	0
Vietnam	0	0	0	0	0	0
Oth Asia	3	2	0	0	3	2
TOTAL	465	12074	460	16920	925	28994
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	2	6	1	27	3	33
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	1	83	0	0	1	83
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	0	0	6	113	6	113
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	1	3	1	4	2	7
Oth Africa	1	4	0	0	1	4
TOTAL	5	96	8	145	13	241

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:

Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

A8620-3

REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICS

No. 159-89 November 29, 1989

U.S. FOREIGN TRADE – SEPTEMBER 1989

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY

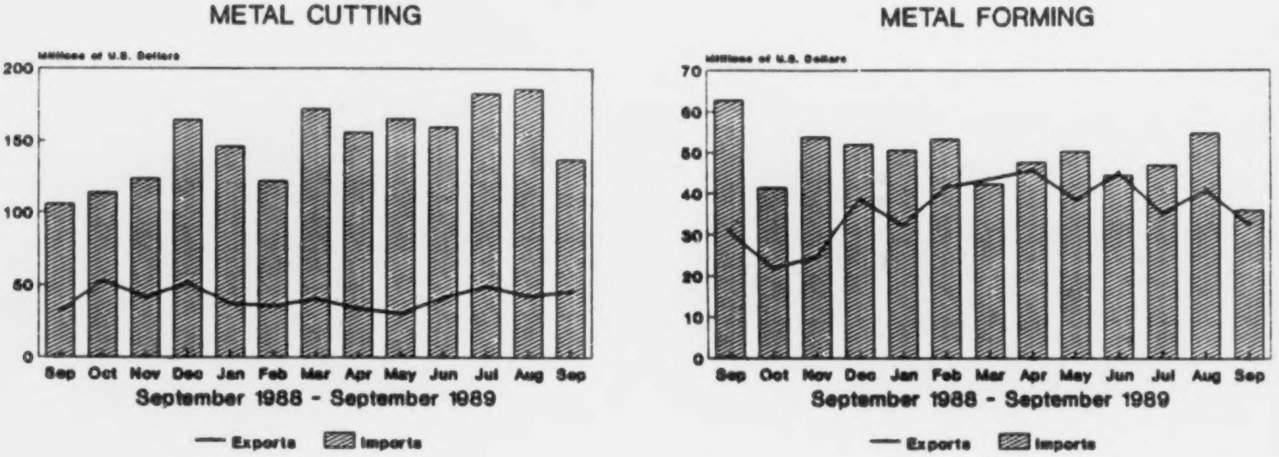
(Millions of U.S. Dollars)

	Sept. 1989	August 1989	% Change Aug.-Sept.	Year to Date '89	Year to Date '88	% Change '88-'89
METAL CUTTING MACHINE TOOLS						
Imports	$137.2	$185.6	(26.1%)	$1,427.0	$1,141.6	25.0%
Exports	$ 46.1	$ 42.4	8.7%	$ 357.6	$ 297.3	20.3%
Balance	($ 91.1)	($143.2)	(36.4%)	($1,069.2)	($ 844.3)	26.6%
METAL FORMING MACHINE TOOLS						
Imports	$ 35.9	$ 54.7	(34.4%)	$425.9	$368.2	15.6%
Exports	$ 32.5	$ 40.9	(20.5%)	$355.2	$239.2	48.5%
Balance	($ 3.4)	($ 13.8)	(75.4%)	($ 70.7)	($129.0)	(45.2%)
MACHINE TOOL TOTAL						
Imports	$173.1	$240.3	(28.0%)	$1,852.9	$1,509.9	22.7%
Exports	$ 78.6	$ 83.3	(5.6%)	$ 712.8	$ 536.5	32.9%
Balance	($ 94.4)	($157.0)	(39.9%)	($1,140.0)	($ 973.4)	17.1%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Imports	$101.6	$120.8	(15.9%)	$989.4	NA	NA
Exports	$ 26.5	$ 24.7	7.3%	$183.0	NA	NA
Balance	($ 75.1)	($ 96.1)	(21.9%)	($806.4)	NA	NA
OTHER MANUFACTURING TECHNOLOGY						
Imports	$80.5	$111.1	(27.5%)	$1,072.6	NA	NA
Exports	$91.0	$112.4	(19.0%)	$ 896.6	NA	NA
Balance	$10.5	$ 1.3	707.7%	($ 175.8)	NA	NA

Note: Numerically controlled machine tools includes both metal cutting and metal forming machines, and is included in the respective totals. NA = not available; ( ) denotes negative; individual items may not add up to totals due to rounding.

During September 1989 exports of metal cutting machine tools rose 9% compared with August to $46.1 million, the second highest total of 1989. Year-to-date metal cutting exports are 20% higher this year than last. Imports of metal cutting machine tools fell 26% from August to $137.2 million, the second lowest total of 1989; year-to-date metal cutting imports are 25% higher this year than last. Exports of NC machines rose 7% over last month to $26.5 million, while imports of NC machines fell 16% to $101.6 million. The overall machine tool trade deficit in September was $94.4 million, 40% less than in August and the lowest monthly deficit since October 1988.

U.S. MONTHLY TRADE IN MACHINE TOOLS


METAL CUTTING

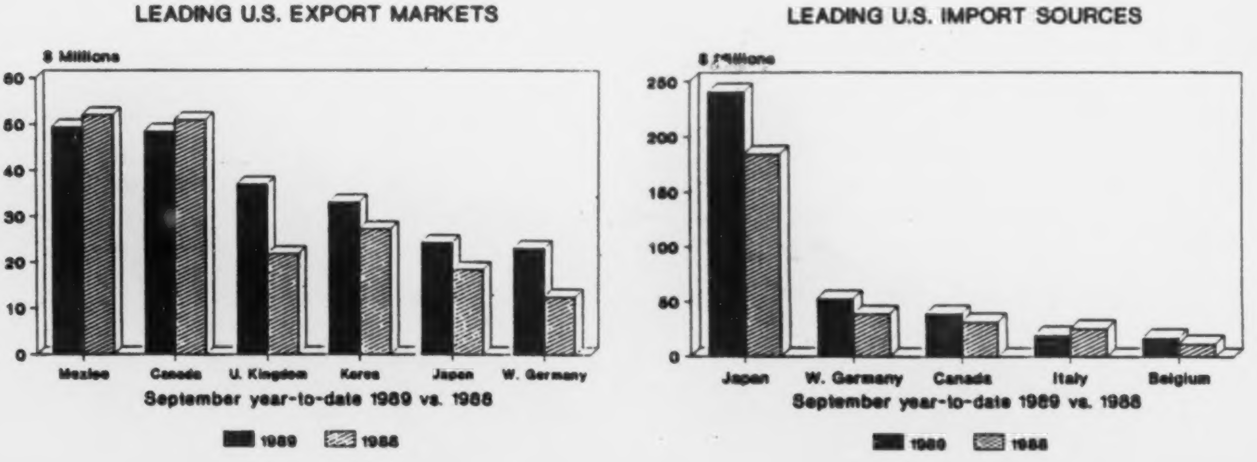
METAL FORMING

METAL CUTTING

Exports

Exports of metal cutting machine tools in September rose 9% compared with August to $46.1 million. Exports of machining centers reached $7.5 million, double August's total, and included $3.4 million and $1.9 million to Canada and Korea, respectively. Exports of horizontal NC lathes rose to $5.3 million (from $1.0 million in August), and included $2.1 and $1.8 million to China and Canada, respectively. Grinding machine exports fell 16% in September to $10.6 million. Canada was the largest export market in September at $9.3 million, followed by Mexico and (surprise!) the Soviet Union. Exports to the Soviet Union in September included five NC sharpening machines ($2.6 million) and two gear cutting machines ($2.5 million); the $5.3 million total easily exceeds annual U.S. machine tool exports to the Soviet Union for every year since 1983.

METAL CUTTING MACHINE TOOL FOREIGN TRADE


LEADING U.S. EXPORT MARKETS

LEADING U.S. IMPORT SOURCES

Imports

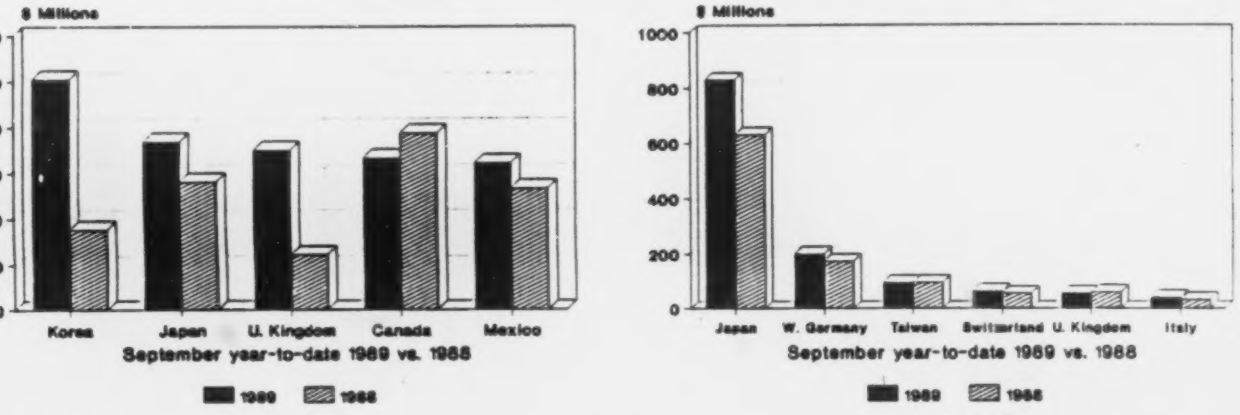
U.S. metal cutting machine tool imports from almost all import sources fell in September compared with August. The import total -- $137.2 million -- was down 26% from August's record $185.6 million. Imports from Japan fell 28% in September to $79.6 million, although year-to-date imports from Japan are 32% higher this year than last. By category, the largest decreases in September imports compared with August were in drilling machines (from $9.2 million in August to $2.5 million in September); grinding machines (from $32.6 million to $18.3 million); and station type machines (from $9.7 million to $2.5 million). Nevertheless, year-to-date U.S. imports are up for all major imports sources except Taiwan and the United Kingdom.

METAL FORMING

Exports

U.S. exports of metal forming machine tools fell 21% from August to September to $32.5 million. However, year-to-date metal forming exports are still almost 50% higher this year than last. Exports to Korea rebounded from $3.2 million in August to $6.3 million in September, while exports to Canada rose 79% to $4.6 million. Exports to the United Kingdom in September fell to $0.9 million from $3.5 million in August and $4.5 million in July, although year-to-date exports are up 188% over last year. Korea is by far the leading year-to-date export market for metal forming machines at $50.5 million, up 186% over last year, followed by a tightly packed group consisting of Japan, the United Kingdom, Canada and Mexico. Exports in September to the Soviet Union were $0.9 million, up from almost nothing previously in 1989.

METAL FORMING MACHINE TOOL FOREIGN TRADE


LEADING U.S. EXPORT MARKETS

LEADING U.S. IMPORT SOURCES

Imports

Imports of metal forming machine tools fell 34% in September compared with August to $35.9 million, due largely to a fall in imports of presses from $23.6 million to $5.0 million. Japanese imports (especially presses) fell sharply, from $33.5 million in August to $17.7 million in September, although year-to-date imports from Japan are still 31% higher this year than last. Imports from Brazil fell to almost nothing in September from $4.4 million in August; year-to-date imports from Brazil are $4.5 million, down from $17.2 million at this time last year. Total year-to-date imports of metal forming machines are up 16% over last year.

OTHER MANUFACTURING TECHNOLOGY

Exports

U.S. exports of Other Manufacturing Technology fell 19% in September from August to $91.0 million. But because imports fell 28% to $80.5 million, the United States enjoyed a trade surplus of $10.5 million, the second consecutive monthly surplus in this category. Exports of machine tool parts and accessories fell from $72.6 million in August to $58.1 million in September, mainly due to an extremely large August shipment to Egypt. Exports of numerical controls held steady in September at $3.1 million; exports of industrial robots and robot parts fell 43% to $3.6 million. Exports of machines and appliances for testing metals and for balancing mechanical parts dropped slightly in September to $6.5 million, while exports of quenching and cutting oils in September rose from $0.8 million to $1.4 million.

Imports

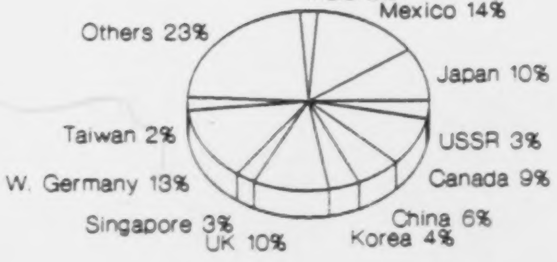
U.S. imports of Other Manufacturing Technology fell 28% in September compared with August. Imports of machine tool parts and accessories fell to $36.3 million in September from $41.6 million in August; imports of injection molding machinery fell 60% to $15.2 million. Imports of numerical controls rebounded from $2.6 million in August to $3.2 million in September, and imports of industrial robots and robot parts fell slightly to $12.3 million in September compared with August. Japan accounted for 44% of U.S. imports of Other Manufacturing Technology in September; Germany supplied 17%.

MONTHLY FOCUS

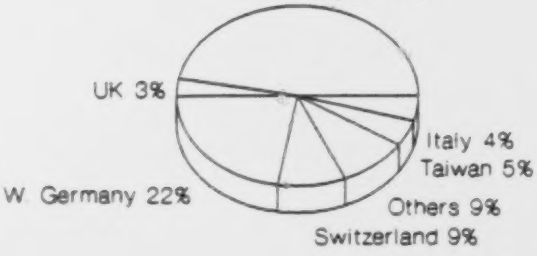
U.S. Foreign Trade in Grinding Machines

Through September of 1989 U.S. imports of grinding machines totalled $218.8 million. Six countries account for 91% of all grinding machine imports – Japan (47%), West Germany (23%), Switzerland (9%), Taiwan (5%), Italy (4%) and the United Kingdom (3%). On the other hand, total U.S. exports of grinding machines in 1989 through September totalled $98.4 million. Exports are much less concentrated – the top 19 export markets account for 91% of total exports. The top export market for U.S. grinding machines – Mexico – accounts for just 14% of the total export market.

Destination of U.S. Exports of Grinding Machines -- % of Total
January - September 1989



Origin of U.S. Imports of Grinding Machines -- % of Total
January - September 1989



1989 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY		FEBRUARY		MARCH		APRIL	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	4,001	$9,651,663	3,732	$12,688,394	6,637	$13,092,251	5,141	$12,327,284
Boring Machines	74	$638,181	26	$2,545,592	18	$3,222,763	17	$950,038
Drilling Machines	18	$895,459	17	$696,798	15	$1,308,988	27	$1,314,012
Gear Cutting Machines	36	$5,448,728	21	$2,086,374	9	$2,158,882	6	$849,917
Grinding Machines	230	$7,834,870	294	$8,944,628	504	$11,634,092	317	$9,161,095
Horizontal Lathes NC	16	$2,019,282	5	$461,768	31	$2,496,490	35	$3,253,292
Vertical Lathes NC	2	$366,000	0	0	2	$112,569	0	0
Lathes Non-NC	16	$465,926	56	$1,275,656	59	$1,492,297	43	$1,613,647
Milling Machines	66	$4,903,870	89	$3,273,726	30	$2,019,223	46	$1,805,710
Machining Centers	21	$3,086,413	22	$5,831,777	14	$1,491,145	28	$3,534,392
Station Type Machines	4	$1,498,740	5	$2,392,333	9	$3,248,541	5	$929,962
Other Metal Cutting	257	$4,584,770	265	$2,822,073	210	$5,030,489	161	$4,263,085
Punching & Shearing	63	$2,957,497	127	$7,132,924	110	$5,651,176	105	$3,794,853
Bending & Forming Machines	84	$3,433,140	104	$3,074,999	94	$4,555,647	107	$4,294,467
Presses	133	$5,590,097	115	$5,951,499	119	$5,662,008	116	$6,281,018
Forging Machines	46	$3,249,295	74	$3,224,180	73	$2,223,430	38	$4,463,652
Other Metal Forming	322	$12,540,612	266	$14,907,382	527	$18,723,205	467	$20,849,780
TOTAL	5,389	$69,164,543	5,218	$77,310,103	8,461	$84,123,196	6,659	$79,686,204

PRODUCT TYPES	MAY		JUNE		JULY		AUGUST	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	4,512	$10,318,184	3,556	$17,348,522	4,243	$14,523,609	5,859	$10,954,511
Boring Machines	10	$1,811,008	29	$1,671,316	4	$75,744	26	$1,370,063
Drilling Machines	39	$2,487,530	33	$1,653,649	24	$1,428,421	42	$1,575,597
Gear Cutting Machines	17	$1,579,602	22	$4,722,265	55	$5,208,745	18	$3,423,837
Grinding Machines	227	$5,612,584	321	$12,488,637	392	$19,501,133	349	$12,629,954
Horizontal Lathes NC	13	$1,205,227	26	$3,018,171	13	$1,512,085	12	$1,014,932
Vertical Lathes NC	1	$80,170	5	$738,521	2	$367,521	3	$368,610
Lathes Non-NC	37	$1,373,016	41	$776,438	59	$1,779,338	39	$1,110,067
Milling Machines	35	$2,375,933	37	$1,408,096	74	$4,101,114	39	$1,503,000
Machining Centers	28	$3,340,264	14	$1,650,056	23	$4,190,223	34	$3,690,718
Station Type Machines	7	$1,176,710	0	0	1	$45,678	6	$5,025,800
Other Metal Cutting	167	$3,352,346	226	$8,360,124	130	$6,166,339	178	$4,880,157
Punching & Shearing	74	$5,837,129	120	$4,665,277	105	$4,248,102	118	$6,391,378
Bending & Forming Machines	91	$7,421,103	72	$4,269,185	84	$2,346,841	80	$4,172,832
Presses	172	$5,741,420	143	$8,063,327	97	$8,025,313	118	$8,418,897
Forging Machines	63	$3,165,982	74	$4,247,697	49	$2,299,970	77	$2,971,894
Other Metal Forming	568	$12,219,709	293	$11,931,694	252	$8,625,468	277	$13,789,261
TOTAL	6,061	$69,097,917	5,012	$87,012,975	5,607	$84,445,644	7,275	$83,291,508

1989 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER	
	UNITS	VALUE
Used & Rebuilt & Under $2,500	6,537	$10,153,000
Boring Machines	7	$455,605
Drilling Machines	74	$1,667,003
Gear Cutting Machines	8	$2,758,714
Grinding Machines	234	$10,589,426
Horizontal Lathes NC	32	$5,329,579
Vertical Lathes NC	0	$0
Lathes Non-NC	37	$530,811
Milling Machines	30	$1,466,905
Machining Centers	75	$7,466,254
Station Type Machines	7	$4,126,477
Other Metal Cutting	201	$5,348,111
Punching & Shearing	122	$4,957,288
Bending & Forming Machines	63	$3,118,880
Presses	123	$6,266,003
Forging Machines	109	$3,380,224
Other Metal Forming	208	$11,018,013
TOTAL	7,867	$78,632,293

1989 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	1ST QUARTER TOTALS		2ND QUARTER TOTALS		3RD QUARTER TOTALS		FIRST SIX MONTH TOTALS	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	14,370	$35,432,308	13,209	$39,993,990	16,639	$35,631,120	27,579	$75,426,298
Boring Machines	118	$6,406,536	56	$4,432,362	37	$1,901,412	174	$10,838,898
Drilling Machines	50	$2,901,245	99	$5,455,191	140	$4,671,021	149	$8,356,436
Gear Cutting Machines	66	$9,693,984	45	$7,151,784	81	$11,391,296	111	$16,845,768
Grinding Machines	1,028	$28,413,590	865	$27,262,316	975	$42,720,513	1,893	$55,675,906
Horizontal Lathes NC	52	$4,977,540	74	$7,476,690	57	$7,856,596	126	$12,454,230
Vertical Lathes NC	4	$478,569	6	$818,691	5	$736,131	10	$1,297,260
Lathes Non-NC	131	$3,233,879	121	$3,763,101	135	$3,420,216	252	$6,996,980
Milling Machines	185	$10,196,819	118	$5,589,739	143	$7,071,019	303	$15,786,558
Machining Centers	57	$10,409,335	70	$8,524,712	132	$15,347,195	127	$18,934,047
Station Type Machines	18	$7,139,614	12	$2,106,672	14	$9,197,955	30	$9,246,286
Other Metal Cutting	732	$12,437,332	554	$15,975,555	509	$16,394,607	1,286	$28,412,887
Punching & Shearing	300	$15,741,597	299	$14,297,259	345	$15,596,768	599	$30,038,856
Bending & Forming Machines	282	$11,063,786	270	$15,984,755	227	$9,638,553	552	$27,048,541
Presses	367	$17,203,604	431	$20,085,765	338	$22,710,213	798	$37,289,369
Forging Machines	193	$8,696,905	175	$11,877,331	235	$8,652,088	368	$20,574,236
Other Metal Forming	1,115	$46,171,199	1,328	$45,001,183	737	$33,432,742	2,443	$91,172,382
TOTAL	19,068	$230,597,842	17,732	$235,797,096	20,749	$246,369,445	36,800	$466,394,938

PRODUCT TYPES	SEPTEMBER Y-T-D TOTALS		% CHANGE 1ST-2ND QUARTER		% CHANGE 2ND-3RD QUARTER	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	44,218	$111,057,418	-8.08%	12.87%	25.97%	-10.91%
Boring Machines	211	$12,740,310	-52.54	-30.81	-33.93	-57.10
Drilling Machines	289	$13,027,457	98.00	88.03	41.41	-14.37
Gear Cutting Machines	192	$28,237,064	-31.82	-26.22	80.00	59.28
Grinding Machines	2,868	$98,396,419	-15.86	-4.05	12.72	56.70
Horizontal Lathes NC	183	$20,310,826	42.31	50.21	-22.97	5.08
Vertical Lathes NC	15	$2,033,391	50.00	71.07	-16.67	-10.08
Lathes Non-NC	387	$10,417,196	-7.63	16.36	11.57	-9.11
Milling Machines	446	$22,857,577	-36.22	-45.18	21.19	26.50
Machining Centers	259	$34,281,242	22.81	-18.11	88.57	80.03
Station Type Machines	44	$18,444,241	-33.33	-70.49	16.67	336.61
Other Metal Cutting	1,795	$44,807,494	-24.32	28.45	-8.12	2.62
Punching & Shearing	944	$45,635,624	-0.33	-9.18	15.38	9.09
Bending & Forming Machines	775	$36,687,094	-4.26	44.48	-15.93	-39.70
Presses	1,136	$59,999,582	17.44	16.75	-21.58	13.07
Forging Machines	603	$29,226,324	-9.33	36.57	34.29	-27.15
Other Metal Forming	3,180	$124,605,124	19.10	-2.53	-44.50	-25.71
TOTAL	57,549	$712,764,383	-7.01	2.25	17.01	4.48

1989 U.S. IMPORTS
BY PRODUCT GROUPS

	JANUARY		FEBRUARY		MARCH		APRIL	
PRODUCT TYPES	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	40,903	$10,113,655	28,520	$12,085,985	51,136	$12,059,838	53,299	$12,791,125
Boring Machines	89	$7,646,136	74	$5,470,749	89	$9,365,627	62	$2,622,059
Drilling Machines	161	$10,160,328	120	$7,005,035	162	$6,883,656	173	$9,029,944
Gear Cutting Machines	46	$4,358,306	23	$2,222,717	67	$1,681,440	24	$1,627,946
Grinding Machines	560	$13,559,864	606	$14,282,507	620	$29,083,045	718	$27,286,695
Horizontal Lathes NC	366	$33,687,505	321	$27,833,919	364	$35,957,086	296	$26,315,649
Vertical Lathes NC	13	$1,199,802	10	$1,610,472	5	$424,971	19	$1,935,853
Lathes Non-NC	560	$7,822,799	352	$5,663,166	399	$6,877,263	484	$7,059,595
Milling Machines	410	$9,722,408	316	$8,491,551	435	$17,093,177	604	$9,709,582
Machining Centers	315	$34,929,013	211	$25,193,738	257	$28,052,640	318	$30,857,850
Station Type Machines	11	$1,801,730	30	$1,648,674	7	$3,375,197	16	$11,494,843
Other Metal Cutting	311	$12,467,388	355	$12,764,694	600	$24,026,638	392	$16,945,014
Punching & Shearing	161	$7,053,551	153	$5,222,761	113	$6,861,975	128	$4,809,075
Bending Forming Machines	183	$8,366,797	194	$7,673,335	199	$5,639,375	181	$9,461,859
Presses	239	$11,386,574	189	$25,984,776	154	$17,014,014	111	$9,382,988
Forging Machines	236	$13,641,470	131	$5,000,422	133	$2,474,805	95	$13,948,522
Other Metal Forming	129	$8,724,784	939	$7,345,113	1,089	$7,539,827	471	$8,290,431
TOTAL	44,693	$196,642,110	32,544	$175,499,614	55,829	$214,410,574	57,391	$203,569,030

	MAY		JUNE		JULY		AUGUST	
PRODUCT TYPES	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	55,283	$15,897,111	69,060	$13,921,578	77,910	$13,718,883	74,032	$16,965,543
Boring Machines	56	$2,914,892	72	$2,527,722	81	$7,293,496	75	$3,376,302
Drilling Machines	198	$8,206,249	152	$4,725,223	104	$5,203,287	248	$9,230,435
Gear Cutting Machines	92	$5,184,412	145	$5,584,652	61	$3,683,843	57	$5,892,446
Grinding Machines	703	$28,618,882	774	$23,858,043	649	$31,278,466	829	$32,609,425
Horizontal Lathes NC	370	$37,390,197	359	$31,870,568	429	$33,974,512	352	$32,470,483
Vertical Lathes NC	21	$3,192,456	13	$2,027,113	11	$5,265,883	16	$1,717,600
Lathes Non-NC	406	$7,181,037	444	$11,364,045	503	$7,584,504	540	$6,924,904
Milling Machines	533	$6,525,800	534	$5,485,628	556	$12,482,002	641	$11,154,525
Machining Centers	293	$31,263,982	326	$40,246,641	335	$38,239,581	396	$40,355,378
Station Type Machines	19	$4,417,149	19	$4,361,363	26	$10,264,530	32	$9,664,860
Other Metal Cutting	450	$16,125,897	423	$15,836,967	442	$15,809,995	504	$16,912,954
Punching & Shearing	103	$4,809,616	226	$8,847,890	243	$9,209,241	106	$5,451,018
Bending Forming Machines	535	$9,628,758	200	$9,413,493	216	$7,023,861	153	$8,870,175
Presses	161	$12,083,555	156	$8,735,506	103	$8,456,517	148	$23,625,962
Forging Machines	155	$9,299,745	105	$5,532,553	189	$9,336,801	94	$4,160,854
Other Metal Forming	545	$13,071,111	188	$9,705,046	185	$10,660,150	238	$10,893,099
TOTAL	59,923	$215,810,849	73,196	$204,044,031	82,043	$229,485,552	78,461	$240,275,963

1989 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER	
	UNITS	VALUE
Used & Rebuilt & Under $2,500	77,048	$15,144,015
Boring Machines	46	$5,045,649
Drilling Machines	96	$2,544,792
Gear Cutting Machines	16	$3,220,313
Grinding Machines	656	$18,270,938
Horizontal Lathes NC	366	$33,946,089
Vertical Lathes NC	12	$1,799,909
Lathes Non-NC	300	$4,584,582
Milling Machines	448	$6,954,433
Machining Centers	323	$34,561,766
Station Type Machines	4	$2,526,536
Other Metal Cutting	289	$11,236,576
Punching & Shearing	112	$6,143,562
Bending Forming Machines	154	$4,509,033
Presses	134	$5,006,807
Forging Machines	51	$3,645,170
Other Metal Forming	134	$13,896,994
TOTALS	80,189	$173,037,164

1989 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	1ST QUARTER TOTALS		2ND QUARTER TOTALS		3RD QUARTER TOTALS		FIRST SIX MONTH TOTALS	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	120,559	$34,259,478	177,642	$42,609,814	228,990	$45,828,441	298,201	$76,869,292
Boring Machines	252	$22,482,512	190	$8,064,673	202	$15,715,447	442	$30,547,185
Drilling Machines	443	$24,049,019	523	$21,961,416	448	$16,978,514	966	$46,010,435
Gear Cutting Machines	136	$8,262,463	261	$12,397,010	134	$12,796,602	397	$20,659,473
Grinding Machines	1,786	$56,925,416	2,195	$79,763,620	2,134	$82,158,829	3,981	$136,689,036
Horizontal Lathes NC	1,051	$97,478,510	1,025	$95,576,414	1,147	$100,391,084	2,076	$193,054,924
Vertical Lathes NC	28	$3,235,245	53	$7,155,422	39	$8,783,392	81	$10,390,667
Lathes Non-NC	1,311	$20,363,228	1,334	$25,604,677	1,343	$19,093,990	2,645	$45,967,905
Milling Machines	1,161	$35,307,136	1,671	$21,721,010	1,645	$30,590,960	2,832	$57,028,146
Machining Centers	783	$88,175,391	937	$102,368,473	1,054	$113,156,725	1,720	$190,543,864
Station Type Machines	48	$6,825,601	54	$20,273,355	62	$22,455,926	102	$27,098,956
Other Metal Cutting	1,266	$49,258,720	1,265	$48,907,878	1,235	$43,959,525	2,531	$98,166,598
Punching & Shearing	427	$19,138,287	457	$18,466,581	461	$20,803,821	884	$37,604,868
Bending Forming Machines	576	$21,679,507	916	$28,504,110	523	$20,403,069	1,492	$50,183,617
Presses	582	$54,385,364	428	$30,202,049	385	$37,089,286	1,010	$84,587,413
Forging Machines	500	$21,116,697	355	$28,780,820	334	$17,142,825	855	$49,897,517
Other Metal Forming	2,157	$23,609,724	1,204	$31,066,588	557	$35,450,243	3,361	$54,676,312
TOTALS	133,066	$586,552,298	190,510	$623,423,910	240,693	$642,798,679	323,576	$1,209,976,208

PRODUCT TYPES	SEPTEMBER Y-T-D TOTALS		% CHANGE 1ST-2ND QUARTER		% CHANGE 2ND-3RD QUARTER	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	527,191	$122,697,733	47.35%	24.37%	28.91%	7.55%
Boring Machines	644	$46,262,632	-24.60	-64.13	6.32	94.87
Drilling Machines	1,414	$62,988,949	18.06	-8.68	-14.34	-22.69
Gear Cutting Machines	531	$33,456,075	91.91	50.04	-48.66	3.22
Grinding Machines	6,115	$218,847,865	22.90	40.12	-2.78	3.00
Horizontal Lathes NC	3,223	$293,446,003	-2.47	-1.95	11.90	5.04
Vertical Lathes NC	120	$19,174,059	89.29	121.17	-26.42	22.75
Lathes Non-NC	3,988	$65,061,895	1.75	25.74	0.67	-25.43
Milling Machines	4,477	$87,619,106	43.93	-38.48	-1.56	40.84
Machining Centers	2,774	$303,700,589	19.67	16.10	12.49	10.54
Station Type Machines	164	$49,554,882	12.50	197.02	14.81	10.77
Other Metal Cutting	3,766	$142,126,123	-0.08	-0.71	-2.37	-10.12
Punching & Shearing	1,345	$58,408,689	7.03	-3.51	0.88	12.66
Bending Forming Machines	2,015	$70,586,686	59.03	31.48	-42.90	-28.42
Presses	1,395	$121,676,699	-26.46	-44.47	-10.05	22.80
Forging Machines	1,189	$67,040,342	-29.00	36.29	-5.92	-40.44
Other Metal Forming	3,918	$90,126,555	-44.18	31.58	-53.74	14.11
TOTALS	564,269	$1,852,774,887	43.17	6.29	26.34	3.11

U.S. IMPORTS
Metal Cutting Machine Tools - September 89

RELEASED: November 29, 1989

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC	548	45617	42	3876
301030	Traveling wire electro-discharge machines, non-NC	212	14364	20	965
301050	Electro-discharge machines, n.e.c., NC	135	7188	12	1265
301070	Electro-discharge machines, n.e.c., non-NC	266	9986	15	731
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1772	144110	213	16385
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	167	22214	23	3055
100035	Horiz. mach. ctrs., ATC	597	103529	73	11863
100045	Mach. ctrs., n.e.c.	238	33848	14	3259
200010	Unit construction mach. (single station transfer), NC	19	3356	0	0
200090	Unit construction mach. (single station transfer), non-NC	15	777	0	0
300010	Multi-station transfer machines, NC	25	19923	1	1817
300090	Multi-station transfer machines, non-NC	97	24958	3	710
8458110010	Horiz. lathes, multiple spindle, NC	266	41411	56	8831
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2403	177921	235	15772
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	487	64082	66	7945
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	67	10032	9	1398
190030	Horiz. engine or toolroom lathes, non-NC	2207	21151	152	1348
190050	Automatic bar and/or chucking mach., single spindle, non-NC	324	10563	16	245
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	76	3940	9	482
190090	Horiz. lathes, n.e.c., non-NC	740	10046	67	830
911060	Vertical turret lathes, multiple spindle, NC	22	8215	2	816
911080	Vertical turret lathes, n.e.c., NC	38	4686	5	422
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	682	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	58	5591	5	562
991050	Vertical turret lathes, non-NC	56	3117	16	75
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	585	16244	40	1605
8459100000	Way-type unit head machines	8	541	0	0
210080	Other drilling machines, NC	361	30237	21	1782
290040	Drilling machines, multiple spindle, non-NC	88	5544	11	82
290050	Drilling machines, radial, non-NC	364	2236	50	257
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	185	1451	2	28
290090	Drilling machines, n.e.c., non-NC	416	23521	12	395
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	11	2974	6	1078
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	131	12120	23	1675
310070	Boring-milling mach., n.e.c., NC	50	2875	1	8
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	31	1031	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	149	5240	4	77
400040	Boring machines, vertical, NC	15	6228	0	0
400050	Boring machines, vertical, non-NC	39	525	1	23
400070	Boring machines, n.e.c., NC	10	2459	0	0
400080	Boring machines, n.e.c., non-NC	208	12809	11	2185
510080	Milling machines, knee type, NC	962	13539	67	712
590030	Milling machines, knee type, non-NC	2581	24134	299	1468
610080	Milling machines, excl. knee type, n.e.c., NC	341	34011	29	3636
690050	Milling machines, profile, dup., or die sinking, non-NC	53	611	0	0
690070	Milling machines, bed type, non-NC	82	2473	4	170
690090	Milling machines, n.e.c., non-NC	458	12851	49	969
700020	Threading or tapping machines, n.e.c., NC	222	11847	20	743
700080	Threading or tapping machines, n.e.c., non-NC	227	8154	26	204
8460110080	Flat surface grinding mach., NC	135	10316	9	300
190010	Flat surface grinding mach., recip.-table type, non-NC	832	9200	88	1126
190050	Flat surface grinding mach., n.e.c., non-NC	1354	15507	179	1114
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	423	74799	43	5156
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	301	10862	29	1261
290030	Grinding mach., internal cylindrical, non-NC	121	10530	11	775
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	992	36487	77	4532
310080	Sharpening machines (tool & cutter grinding), NC	255	3051	67	799
390050	Sharpening machines (tool & cutter grinding), non-NC	504	6791	42	324
400060	Honing or lapping machines, NC	31	6200	0	0
400080	Honing or lapping machines, non-NC	124	4127	13	214
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	44	4378	4	565
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	999	26600	94	2106
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	4	84	0	0
200010	Shaping or slotting machines, NC	31	2381	2	189
200090	Shaping or slotting machines, non-NC	45	2278	5	813
300060	Broaching machines, NC	10	2317	1	251
300080	Broaching machines, non-NC	43	4021	3	11
401050	Gear hobbers	85	14787	5	904
401070	Gear shapers	10	1301	0	0
401090	Gear cutting machines, n.e.c.	281	949	1	1
405060	Gear grinding or finishing machines	155	16419	10	2316
500050	Sawing or cutting-off machines, NC	101	2522	7	132
500090	Sawing or cutting-off machines, non-NC	1399	18667	94	1182
9000000001	Metal cutting machine tools, n.e.c.	523	12699	42	874
9800000001	Used or rebuilt machine tools	5429	33018	478	4363
9900000001	Machine tools valued at less than $2,500	503794	71686	75101	8117
	Cutting Total			78135	137171
	Y-T-D Cutting Total	536439	1426942		
	NC Y-T-D Cutting Total	10022	917047		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - September 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301030	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	135	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	7	50	6	52	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	48	390	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	1	628
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	6	29	0	0	0	0	1	174
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	3	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	10	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	3	21	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	20	460	0	0	0	0	2	208
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	23
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	16	0	0	1	11
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	1	1378	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	60	0	0	0	0
700020	0	0	0	0	0	0	0	0	4	58
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	26	276
190050	0	0	0	0	2	3	6	9	1	7
210080	0	0	0	0	0	0	0	0	1	79
290010	0	0	0	0	11	147	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	380
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	6	19	0	0	1	3
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	8	1	4	5	585
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	1	180
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	13	191	1	3	2	13
9000000001	0	0	0	0	0	0	15	265	0	0
9800000001	0	0	0	0	214	57	1	11	2	14
9900000001	182	2	1	2	297	60	95	26	1610	296
Month Tot	182	2	83	941	558	2014	121	452	1660	2936
Y-T-D Tot	326	4501	757	5110	2846	15685	1312	17967	26337	40635
NC YTD Tot	11	383	35	775	17	3226	43	2203	126	12527

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - September 89

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	41	3781	0	0	0	0	0	0	0	0
301030	7	530	0	0	0	0	0	0	0	0
301050	12	1265	0	0	0	0	0	0	0	0
301070	4	344	0	0	0	0	0	0	0	0
8457100015	149	13062	2	100	20	925	0	0	0	0
100025	21	2882	0	0	0	0	0	0	0	0
100035	67	10178	0	0	0	0	0	0	0	0
100045	1	1162	0	0	0	0	3	210	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	1817	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	47	6647	0	0	0	0	0	0	0	0
110030	207	14187	6	348	0	0	0	0	0	0
110050	63	7754	0	0	0	0	0	0	0	0
110090	1	233	1	102	0	0	1	100	0	0
190030	2	99	0	0	20	198	18	128	0	0
190050	1	72	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	9	334	0	0	0	0	0	0
911060	1	188	0	0	0	0	0	0	0	0
911080	3	299	2	123	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	5	562	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	13	829	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	17	1731	0	0	0	0	1	4	0	0
290040	11	82	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	1	20	0	0	0	0	0	0	0	0
290090	1	49	0	0	0	0	4	28	1	4
310010	1	375	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	1	45	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	54	362	0	0
590030	3	60	0	0	0	0	0	0	0	0
610080	0	0	0	0	2	83	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	113
690090	0	0	0	0	0	0	3	95	2	330
700020	16	684	0	0	0	0	0	0	0	0
700080	21	159	0	0	0	0	1	18	0	0
8460110080	4	186	0	0	0	0	0	0	0	0
190010	27	454	0	0	33	284	0	0	0	0
190050	20	149	0	0	0	0	0	0	3	8
210080	26	3198	0	0	0	0	0	0	0	0
290010	3	260	0	0	0	0	0	0	0	0
290030	1	48	0	0	0	0	0	0	0	0
290050	20	2269	0	0	1	28	1	9	5	440
310080	4	337	0	0	0	0	0	0	0	0
390050	3	20	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	103
900060	4	565	0	0	0	0	0	0	0	0
900080	58	693	8	54	0	0	0	0	1	8
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	1	177	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	1	251	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	1	198	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	7	132	0	0	0	0	0	0	0	0
500090	15	398	0	0	0	0	0	0	0	0
9000000001	4	485	0	0	0	0	0	0	0	0
9800000001	30	576	0	0	0	0	0	0	15	970
9900000001	6411	935	180	181	0	0	7	5	79	131
Month Tot	7345	79600	221	2070	76	1519	93	959	108	2107
Y-T-D Tot	47840	830090	5111	18921	618	11887	1595	14763	2069	9795
NC YTD Tot	6517	696129	130	8021	132	6414	501	5095	7	1506

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools – September 89

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	1	95	0	0	0	0	0	0	0	0
301030	4	362	9	73	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	3	236	6	73	0	0	2	77	0	0
8457100015	0	0	9	468	24	1203	5	432	4	196
100025	0	0	0	0	0	0	0	0	2	174
100035	0	0	0	0	0	0	6	1684	0	0
100045	0	0	0	0	2	74	8	1812	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	2	276	0	0	0	0	1	433	0	0
8458110010	0	0	0	0	0	0	9	2183	0	0
110030	6	445	13	622	0	0	0	0	3	170
110050	0	0	1	56	0	0	0	0	0	0
110090	0	0	0	0	0	0	6	964	0	0
190030	0	0	47	313	27	339	0	0	25	169
190050	2	76	12	81	0	0	1	16	0	0
190070	2	424	7	58	0	0	0	0	0	0
190090	0	0	0	0	8	88	1	8	1	10
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	2	43	14	32	0	0	0	0	0	0
995090	0	0	0	0	5	307	1	175	14	91
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	39	0	0	1	4	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	17	80	0	0	0	0	32	167
290070	0	0	0	0	0	0	1	9	0	0
290090	0	0	0	0	1	7	2	286	0	0
310010	0	0	3	28	2	675	0	0	0	0
310040	0	0	0	0	0	0	1	1007	0	0
310070	0	0	0	0	0	0	1	8	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	3	32	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	1	382	0	0	3	496	4	1228	1	53
510080	0	0	1	9	12	341	0	0	0	0
590030	0	0	190	1012	73	277	0	0	33	119
610080	0	0	15	470	7	252	3	1450	1	3
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	3	57	0	0	0	0	0	0
690090	0	0	4	22	2	27	3	322	34	113
700020	0	0	0	0	0	0	0	0	0	0
700080	2	6	0	0	1	18	1	4	0	0
8460110080	0	0	0	0	0	0	5	113	0	0
190010	0	0	0	0	1	77	0	0	1	34
190050	0	0	137	828	9	48	1	62	0	0
210080	5	562	0	0	0	0	11	1318	0	0
290010	8	767	0	0	7	87	0	0	0	0
290030	8	225	0	0	0	0	2	502	0	0
290050	0	0	7	123	11	183	18	1012	13	86
310080	4	23	55	289	1	2	3	149	0	0
390050	1	3	0	0	7	65	14	187	10	27
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	9	86	1	11	2	13
900060	0	0	0	0	0	0	0	0	0	0
900080	1	89	0	0	7	40	8	592	3	33
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	12	0	0	0	0	0	0
200090	0	0	2	26	2	769	1	18	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	3	11	0	0	0	0
401050	0	0	0	0	0	0	2	511	1	15
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	1	0	0
405060	7	2265	0	0	0	0	0	0	3	50
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	45	185	5	21	12	368	1	3
9000000001	0	0	4	28	0	0	3	22	16	74
9800000001	1	60	5	35	59	1530	22	985	129	124
9900000001	201	29	59361	5566	188	131	798	368	5691	384
Month Tot	261	6369	59969	10587	476	7153	962	18356	6020	2108
Y-T-D Tot	1345	63539	342439	94464	5815	55324	8833	200111	89196	44151
NC YTD Tot	166	23251	821	19668	549	23797	681	105291	286	8761

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

RELEASED: November 29, 1989

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	2736	34563	20	6134
8462100030	Headers and upsetters, including cold headers	76	7727	6	643
100050	Forging or die stamping machines, and hammers, n.e.c.	1113	59314	45	3003
210080	Bending, folding, straight. or flat. mach., incl presses, NC	832	27549	48	1597
290030	Press brakes, non-NC	283	7523	15	453
290040	Bending rolls, non-NC	66	1709	5	96
290050	Bending, folding, straight., or flat., n.e.c., non-NC	834	33806	86	2364
310080	Shearing machines, NC	40	5026	7	1031
390050	Shearing machines, non-NC	565	11214	65	954
410080	Punching or notching mach., incl. comb. punch & shear, NC	292	31469	20	3449
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	448	10699	20	710
910060	Hydraulic presses, NC	28	3397	2	812
910090	Hydraulic presses, non-NC	394	20491	88	1481
990030	Presses, n.e.c., NC	40	4945	2	179
990040	Presses, mechanical, non-NC	66	23337	0	0
990060	Presses, n.e.c., non-NC	867	69507	42	2534
8463100080	Draw benches for bars, tubes, profiles, wire or the like	37	4961	2	23
200080	Thread rolling machines	42	2409	4	72
300080	Machines for working wire	514	25673	68	5409
900080	Metal forming machine tools, n.e.c.	589	22520	40	2259
9800000002	Used or rebuilt machine tools	701	12665	127	2231
9900000002	Machine tools valued at less than $2,500	17267	5329	1342	433

Forming Total			2054	35866
Y-T-D Forming Total	27830	425832		
NC Y-T-D Forming Total	1232	72386		
Cutting and Forming Totals:				
Monthly Total			80189	173037
Y-T-D Total	564269	1852775		
NC Y-T-D Total	11254	989433		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	455662	0	36290
2710003070	Quenching or cutting oils	0	65	0	5
8428900010	Industrial robots for lifting, handling, loading or unload	1516	33410	87	1981
8456101010	Laser, light or photon beam for working metal, NC	80	11043	21	2250
101020	Laser, light or photon beam for working metal, non-NC	34	2951	4	385
105000	Laser, light or photon beam for other materials	1157	4119	24	751
201010	Ultrasonic processes for working metal, NC	6	952	0	0
201050	Ultrasonic processes for working metal, non-NC	12	29	1	4
205000	Ultrasonic processes for working other materials	134	451	1	4
8477106010	Injection molding mach., for rubber or oth. thermosetting	735	69149	43	3205
106050	Injection molding mach., for thermoplastics	1989	201383	165	11963
200010	Extruders for rubber or other thermosetting materials	163	18426	16	1717
200050	Extruders for processing thermoplastics	551	31614	58	2071
300000	Blow molding machines	227	35285	18	2282
400000	Vacuum-molding and other thermoforming machines	223	14457	39	377
8479899040	Industrial robots, n.e.c.	13459	102900	819	7547
908040	Industrial robot parts	0	26435	0	2722
8537100030	Numerical controls for controlling machine tools	9655	37546	2118	3171
9024100000	Machines and appliances for testing metals	0	10770	0	1266
9031100000	Machines for balancing mechanical parts	0	7621	0	1666
300000	Profile projectors	0	3818	0	325
9032810020	Industrial process control instr., hydraulic	158725	2172	27725	302
810060	Industrial process control instr., pneumatic	87778	2277	4780	189

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	3	50	0	0	1	360
8462100030	0	0	0	0	3	14	0	0	0	0
100050	0	0	0	0	7	167	1	2	0	0
210080	1	47	0	0	4	206	1	4	0	0
290030	3	57	0	0	9	283	0	0	0	0
290040	0	0	0	0	0	0	0	0	2	69
290050	0	0	1	9	19	291	0	0	7	63
310080	2	54	0	0	0	0	0	0	0	0
390050	0	0	0	0	7	205	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	3	76	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	7	209	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	951	0	0	15	511	1	72	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	2	1179	0	0	13	1474
900080	0	0	0	0	6	545	1	58	3	255
9800000002	0	0	0	0	94	246	0	0	4	138
9900000002	0	0	0	0	3	5	14	4	16	6
Month Tot	7	1110	1	9	182	3989	18	140	46	2365
Y-T-D Tot	431	16845	250	4518	3772	38909	116	1310	898	19498
NC YTD Tot	40	1482	0	0	18	980	10	235	11	921
C&F Month	189	1112	84	950	740	6002	139	592	1706	5301
C&F Y-T-D	757	21346	1007	9628	6618	54594	1428	19277	27235	60134
C&F NC YTD	51	1865	35	775	35	4206	53	2439	137	13449

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
1000000000	0	71	0	21	0	5986	0	210	0	353
2710003070	0	0	0	0	0	1	0	0	0	0
8428900010	0	0	0	0	22	290	0	0	0	0
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	1	7	0	0	2	1
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	3	605	3	410	0	0
106050	0	0	0	0	28	2382	0	0	7	1062
200010	0	0	0	0	1	3	7	213	0	0
200050	0	0	0	0	4	30	0	0	3	24
300000	0	0	0	0	1	73	9	675	0	0
400000	0	0	0	0	0	0	0	0	0	0
8479899040	0	0	0	0	1	106	0	0	1	44
908040	0	0	0	0	0	78	0	50	0	7
8537100030	0	0	0	0	0	0	0	0	1000	30
9024100000	0	0	0	50	0	142	0	151	0	0
9031100000	0	0	0	0	0	6	0	55	0	0
300000	0	0	0	0	0	0	0	0	0	6
9032810020	0	0	0	0	454	23	0	0	0	0
810060	0	0	0	0	0	0	0	0	350	30

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	9	5661	0	0	0	0	0	0	0	0
8462100030	2	600	0	0	0	0	0	0	0	0
100050	16	2212	2	26	1	3	0	0	0	0
210080	38	1201	0	0	0	0	0	0	0	0
290030	2	57	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	4
290050	14	1189	0	0	0	0	1	92	18	[illegible]2
310080	1	196	0	0	0	0	0	0	0	0
390050	9	479	3	67	0	0	0	0	1	12
410080	9	1535	0	0	0	0	0	0	0	0
490050	10	296	0	0	0	0	0	0	1	16
910060	0	0	0	0	0	0	0	0	0	0
910090	34	362	1	27	0	0	0	0	2	238
990030	2	179	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	18	917	0	0	0	0	0	0	0	0
8463100080	2	23	0	0	0	0	0	0	0	0
200080	3	62	0	0	0	0	0	0	0	0
300080	28	1017	0	0	0	0	0	0	0	0
900080	21	1015	0	0	0	0	0	0	0	0
9800000002	3	617	0	0	0	0	0	0	2	108
9900000002	356	112	0	0	0	0	6	15	5	8
Month Tot	577	17729	6	120	1	3	7	106	30	628
Y-T-D Tot	4313	240233	66	295	54	729	480	2044	266	6584
NC YTD Tot	802	41852	0	0	0	0	1	50	6	492
C&F Month	7922	97329	227	2190	77	1522	100	1066	138	2735
C&F Y-T-D	52153	1070322	5177	19216	672	12615	2075	16807	2335	16379
C&F NC YTD	7319	737980	130	8021	132	6414	502	5145	13	1998

Other Manufacturing Technology

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	10973	0	227	0	540	0	59	0	1010
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	26	1328	0	0	0	0	0	0	1	66
8456101010	11	2072	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	1	4	0	0	0	0	0	0	0	0
205000	1	4	0	0	0	0	0	0	0	0
8477106010	18	1132	0	0	0	0	0	0	0	0
106050	48	4273	4	141	0	0	0	0	0	0
200010	4	1238	0	0	0	0	0	0	0	0
200050	4	32	1	22	0	0	0	0	0	0
300000	3	1082	0	0	0	0	0	0	0	0
400000	1	103	0	0	0	0	0	0	0	0
8479899040	752	6705	0	0	2	4	0	0	3	118
908040	0	955	0	0	0	0	0	0	0	49
8537100030	971	3114	120	7	0	0	0	0	0	0
9024100000	0	391	0	0	0	0	0	0	0	75
9031100000	0	1534	0	0	0	0	0	0	0	0
300000	0	85	0	0	0	0	0	0	0	0
9032810020	0	0	5800	113	0	0	0	0	0	0
810060	157	39	0	0	0	0	0	0	489	98

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	6	46	1	17
8462100030	0	0	0	0	0	0	1	28	0	0
100050	0	0	2	19	11	408	4	130	1	36
210080	0	0	0	0	0	0	3	71	1	68
290030	0	0	0	0	0	0	0	0	1	55
290040	0	0	2	22	0	0	0	0	0	0
290050	2	19	1	136	1	130	8	49	14	144
310080	1	713	0	0	0	0	0	0	3	68
390050	0	0	5	21	12	47	23	107	5	16
410080	1	259	0	0	0	0	4	910	6	746
490050	0	0	3	287	0	0	3	35	0	0
910060	0	0	0	0	0	0	2	812	0	0
910090	0	0	4	23	3	14	2	566	35	42
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	4	11	1	35	0	0	1	3	1	35
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	1	10	0	0	0	0	0	0
300080	1	38	9	99	8	240	6	1357	1	5
900080	3	175	0	0	0	0	5	208	1	3
9800000002	0	0	0	0	3	22	15	827	6	273
9900000002	14	7	404	151	0	0	11	16	513	111
Month Tot	26	1221	432	801	38	861	94	5166	589	1618
Y-T-D Tot	1353	11886	7083	6704	682	10570	1297	52089	6769	13620
NC YTD Tot	28	3980	23	565	6	471	207	16136	80	5223
C&F Month	287	7590	60401	11388	514	8014	1056	23521	6609	3725
C&F Y-T-D	2698	75425	349522	101168	6497	65894	10130	252199	95965	57771
C&F NC YTD	194	27231	844	20233	555	24268	888	121426	366	13984

Other Manufacturing Technology

1000000000	0	2014	0	2657	0	3277	0	6388	0	2506
2710003070	0	0	0	0	0	0	0	3	0	0
8428900010	26	89	0	0	3	57	2	90	7	61
8456101010	1	35	0	0	8	55	1	88	0	0
101020	0	0	0	0	0	0	4	385	0	0
105000	0	0	0	0	3	101	4	510	14	132
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	5	283	0	0	10	602	4	172
106050	2	266	11	838	9	299	47	2359	9	342
200010	4	262	0	0	0	0	0	0	0	0
200050	0	0	0	0	9	335	34	1587	3	40
300000	0	0	1	21	0	0	4	431	0	0
400000	0	0	0	0	30	61	8	213	0	0
8479899040	1	5	6	83	6	25	23	223	24	235
908040	0	186	0	82	0	195	0	1011	0	109
8537100030	0	0	0	0	0	0	27	19	0	0
9024100000	0	25	0	0	0	126	0	20	0	286
9031100000	0	38	0	12	0	3	0	17	0	0
300000	0	0	0	0	0	187	0	0	0	48
9032810020	376	10	0	0	1900	9	1	2	19194	145
810060	112	3	3650	11	0	0	1	2	21	6

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	1	31	105	290	106	321
Bulgaria	0	0	0	0	0	0
Czechoslovakia	3	31	0	0	3	31
Denmark	42	78	1	65	43	143
East Germany	5	61	0	0	5	61
Finland	1	2	19	794	20	796
Hungary	0	0	0	0	0	0
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	9	10	11	202	20	211
Norway	0	0	0	0	0	0
Poland	17	101	0	0	17	101
Portugal	10	53	0	0	10	53
Romania	0	0	0	0	0	0
USSR	0	0	0	0	0	0
Yugoslavia	2	21	0	0	2	21
Oth Europe	0	0	1	36	1	36
TOTAL	3953	38720	403	12984	4356	51704
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	2	93	70	121	72	214
Oth N & C Am.	0	0	0	0	0	0
TOTAL	560	2107	252	4109	812	6216
SOUTH AMERICA						
Argentina	2	13	0	0	2	13
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	85	954	1	9	86	963
OCEANIA						
Australia	0	0	0	0	0	0
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	5909	1065	364	25	6273	1090
Hong Kong	5	173	12	37	17	210
India	6	8	3	5	9	13
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	6	369	3	43	9	412
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	73537	95390	1398	18764	74935	114155
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Cutting Machine Tools - September 89

RELEASED: November 29, 1989

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	318	3538	3	249
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	22	3470	5	780
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	5	954	1	87
100035	Horiz. mach. ctrs., ATC	40	16370	3	3197
100045	Mach. ctrs., n.e.c.	192	13487	66	3402
200010	Unit construction mach. (single station transfer), NC	3	2683	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	4268	3	3294
300010	Multi-station transfer machines, NC	5	5279	1	345
300090	Multi-station transfer machines, non-NC	16	3400	3	488
8458110010	Horiz. lathes, multiple spindle, NC	3	534	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	133	11036	16	1555
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	39	6974	12	2393
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	8	1767	4	1382
190030	Horiz. engine or toolroom lathes, non-NC	75	1783	4	58
190050	Automatic bar and/or chucking mach., single spindle, non-NC	16	59	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	35	2546	4	113
190090	Horiz. lathes, n.e.c., non-NC	187	2446	27	270
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	5	863	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	1	273	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	9	898	0	0
991050	Vertical turret lathes, non-NC	20	650	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	54	2933	2	91
8459100000	Way-type unit head machines	13	2814	0	0
210080	Other drilling machines, NC	80	6101	12	955
290040	Drilling machines, multiple spindle, non-NC	19	1120	1	82
290050	Drilling machines, radial, non-NC	24	922	3	159
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	68	953	43	23
290090	Drilling machines, n.e.c., non-NC	98	3930	15	449
310010	Boring-milling mach., horiz. spind., table, excl. planer, '	5	1799	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	2	558	1	193
310070	Boring-milling mach., n.e.c., NC	28	2160	0	0
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	30	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	100	2012	0	0
400040	Boring machines, vertical, NC	4	1294	2	112
400050	Boring machines, vertical, non-NC	30	1018	3	51
400070	Boring machines, n.e.c., NC	1	1350	0	0
400080	Boring machines, n.e.c., non-NC	40	2519	1	100
510080	Milling machines, knee type, NC	24	1600	2	133
590030	Milling machines, knee type, non-NC	38	1881	3	102
610080	Milling machines, excl. knee type, n.e.c., NC	42	5129	3	276
690050	Milling machines, profile, dup., or die sinking, non-NC	21	1095	0	0
690070	Milling machines, bed type, non-NC	55	7023	5	390
690090	Milling machines, n.e.c., non-NC	266	6130	17	565
700020	Threading or tapping machines, n.e.c., NC	25	1131	7	652
700080	Threading or tapping machines, n.e.c., non-NC	221	5838	34	341
8460110080	Flat surface grinding mach., NC	110	8803	3	1061
190010	Flat surface grinding mach., recip.-table type, non-NC	70	1017	12	158
190050	Flat surface grinding mach., n.e.c., non-NC	94	8385	9	421
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	304	22654	48	2251
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	38	4285	7	963
290030	Grinding mach., internal cylindrical, non-NC	41	3851	1	317
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	394	17929	30	950
310080	Sharpening machines (tool & cutter grinding), NC	34	3863	6	2655
390050	Sharpening machines (tool & cutter grinding), non-NC	790	7492	21	118
400060	Honing or lapping machines, NC	2	58	0	0
400080	Honing or lapping machines, non-NC	554	7018	45	604
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	27	2695	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	410	10346	52	1091
8461100060	Planing machines, NC	6	3712	0	0
100080	Planing machines, non-NC	131	4849	16	930
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	38	1136	1	30
300060	Broaching machines, NC	1	248	0	0
300080	Broaching machines, non-NC	47	2119	5	107
401050	Gear hobbers	33	4727	2	70
401070	Gear shapers	58	4223	1	29
401090	Gear cutting machines, n.e.c.	56	13262	4	2628
405060	Gear grinding or finishing machines	45	6025	1	32
500050	Sawing or cutting-off machines, NC	30	1684	5	432
500090	Sawing or cutting-off machines, non-NC	774	10501	103	1673
9000000001	Metal cutting machine tools, n.e.c.	204	10051	27	934
9800000001	Used or rebuilt machine tools	5004	40744	525	4982
9900000001	Machine tools valued at less than $2,500	31794	11417	5451	1403
	Cutting Total			6681	46124
	Y-T-D Cutting Total	43487	357714		
	NC Y-T-D Cutting Total*	1241	134462		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - September 89

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	2	340
100025	0	0	0	0	0	0	0	0	1	87
100035	0	0	0	0	0	0	1	296	2	2901
100045	0	0	0	0	0	0	0	0	2	98
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	229
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	67	0	0	1	137	0	0	5	547
110050	0	0	0	0	0	0	0	0	8	1278
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	2	29
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	48
190090	0	0	0	0	0	0	0	0	3	12
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	40
290040	0	0	0	0	0	0	1	82	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	5	112
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	100
510080	0	0	0	0	0	0	0	0	2	133
590030	1	52	0	0	0	0	0	0	2	50
610080	2	210	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	5	390
690090	1	14	0	0	0	0	1	47	1	195
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	2	225	0	0	6	47
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	20
190050	0	0	0	0	0	0	0	0	3	47
210080	0	0	0	0	0	0	0	0	1	32
290010	0	0	0	0	0	0	0	0	5	900
290030	0	0	0	0	0	0	1	317	0	0
290050	0	0	0	0	0	0	0	0	2	129
310080	0	0	0	0	0	0	0	0	0	0
390050	2	6	0	0	0	0	0	0	3	17
400060	0	0	0	0	0	0	0	0	0	0
400080	1	16	0	0	0	0	0	0	6	57
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	0	0	8	64
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	219
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	30
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	2	73
500090	3	52	0	0	0	0	11	182	31	352
9000000001	0	0	0	0	0	0	0	0	1	13
9800000001	13	323	0	0	0	0	16	40	58	437
9900000001	32	23	7	4	0	0	28	9	2505	253
Month Tot	56	761	7	4	3	362	59	973	2679	9278
Y-T-D Tot	708	8186	57	987	168	5588	341	7614	19605	43477
NC YTD Tot*	13	1264	4	380	31	3478	41	3138	168	17294

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - September 89

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	395	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	4	1115	0	0	0	0	0	0	0	0
110090	2	982	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	2	18	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	30	0	0	1	355	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	3	33
700020	1	14	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	1	322	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	1	25
390050	0	0	1	7	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	20	10	174	0	0	0	0	6	63
900060	0	0	0	0	0	0	0	0	0	0
900080	2	441	0	0	0	0	0	0	1	21
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	65	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	20	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	1	21	0	0	0	0	1	13
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	2	460	6	173	3	37	0	0	38	650
9900000001	0	0	0	0	2	3	0	0	0	0
Month Tot	14	3457	20	459	8	413	1	322	50	805
Y-T-D Tot	472	22262	623	9980	187	8439	98	4096	443	10859
NC YTD Tot*	92	13891	47	6608	5	1694	6	1968	8	1171

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools – September 89

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	151	0	0	0	0	0	0	0	0
8457100015	0	0	1	87	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	47	1791	0	0	4	246	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	2528	0	0
300010	0	0	1	345	0	0	0	0	0	0
300090	0	0	1	258	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	1	86	0	0	1	89	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	10	91	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	75	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	2	63	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	5	3	263	0	0	5	55	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	3	51	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	1	66	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	3	161	0	0	5	25	0	0
700020	0	0	3	570	0	0	0	0	0	0
700080	0	0	0	0	0	0	11	30	0	0
8460110080	0	0	1	714	0	0	0	0	0	0
190010	0	0	0	0	0	0	1	10	0	0
190050	2	354	0	0	0	0	2	11	0	0
210080	24	1228	0	0	0	0	14	566	0	0
290010	0	0	0	0	0	0	2	63	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	10	615	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	4	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	35	0	0	1	6	6	29
900060	0	0	0	0	0	0	0	0	0	0
900080	6	182	3	27	0	0	14	139	1	8
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	11	220	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	2	45	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	2	132	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	1	34	0	0	0	0	0	0	0	0
500090	4	270	19	323	0	0	6	54	9	61
9000000001	12	642	0	0	0	0	4	38	0	0
9800000001	6	209	23	460	0	0	182	710	0	0
9900000001	296	159	64	55	8	5	645	338	0	0
Month Tot	353	3235	174	5224	11	203	935	6023	16	98
Y-T-D Tot	2672	24351	1490	33203	80	927	5722	49411	406	3524
NC YTD Tot*	122	7989	112	12875	3	135	141	10528	19	1900

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - September 89

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	2	98	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	12	871	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	1	94	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	27	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	193	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	2	112	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	3	68	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	9	122	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	21	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	31	0	0	1	35	2	27	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	13	0	0
401050	0	0	0	0	2	70	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	1	32	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	1	19	2	34	0	0	0	0	0	0
9000000001	2	72	0	0	0	0	2	9	0	0
9800000001	11	278	0	0	0	0	0	0	0	0
9900000001	18	16	0	0	0	0	20	8	0	0
Month Tot	35	443	2	34	7	256	53	1517	0	0
Y-T-D Tot	661	6351	220	2807	235	3010	576	7167	84	1876
NC YTD Tot*	30	2170	1	677	16	1614	34	2562	18	655

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - September 89

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	1	196	0	0	1	157
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	2	765	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	5	413	0	0	1	122	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	2	400
190030	0	0	0	0	0	0	1	15	1	14
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	3	65	0	0
190090	1	5	0	0	3	57	1	3	7	83
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	16	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	6	440
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	3	159
290070	43	23	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	1	14
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	31	2	60
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	5	13	0	0	10	26
8460110080	0	0	0	0	0	0	0	0	1	25
190010	0	0	0	0	0	0	0	0	1	7
190050	0	0	0	0	0	0	0	0	2	10
210080	0	0	3	118	0	0	4	253	1	33
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	18	206	0	0
310080	0	0	5	2630	0	0	0	0	0	0
390050	0	0	0	0	0	0	13	82	1	3
400060	0	0	0	0	0	0	0	0	0	0
400080	3	60	0	0	0	0	0	0	5	51
900060	0	0	0	0	0	0	0	0	0	0
900080	3	10	0	0	0	0	8	162	6	38
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	75	0	0	0	0	2	351	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	29	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	29
401090	0	0	2	2496	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	2	325
500090	5	119	0	0	1	20	6	109	3	45
9000000001	0	0	2	15	1	20	0	0	3	125
9800000001	46	486	0	0	0	0	38	130	83	591
9900000001	132	152	0	0	16	10	97	58	1581	309
Month Tot	241	2109	12	5259	28	438	194	1508	1723	2943
Y-T-D Tot	2164	37038	32	6479	274	5113	1447	23207	4722	26761
NC YTD Tot*	139	21351	22	3238	7	601	63	8768	99	8512

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

RELEASED: November 29, 1989

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	427	6797	34	254
8462100030	Headers and upsetters, including cold headers	57	12912	6	1511
100050	Forging or die stamping machines, and hammers, n.e.c.	546	16314	103	1869
210080	Bending, folding, straight. or flat. mach., incl presses, NC	262	16939	21	986
290030	Press brakes, non-NC	29	1255	2	59
290040	Bending rolls, non-NC	46	1410	1	27
290050	Bending, folding, straight., or flat., n.e.c., non-NC	442	17083	39	2046
310080	Shearing machines, NC	47	3649	8	507
390050	Shearing machines, non-NC	157	3444	36	693
410080	Punching or notching mach., incl. comb. punch & shear, NC	125	19574	20	1988
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	615	18969	58	1769
910060	Hydraulic presses, NC	68	3642	3	113
910090	Hydraulic presses, non-NC	434	19659	65	3348
990030	Presses, n.e.c., NC	38	4776	2	443
990040	Presses, mechanical, non-NC	130	6461	2	709
990060	Presses, n.e.c., non-NC	466	25462	51	1653
8463100080	Draw benches for bars, tubes, profiles, wire or the like	221	4830	10	269
200080	Thread rolling machines	29	2510	0	0
300080	Machines for working wire	735	25751	41	2287
900080	Metal forming machine tools, n.e.c.	1768	84718	123	8208
9800000002	Used or rebuilt machine tools	2719	55363	179	3455
9900000002	Machine tools valued at less than $2,500	4701	3534	382	313
	Forming Total			1186	32509
	Y-T-D Forming Total	14062	355051		
	NC Y-T-D Forming Total	540	48580		
	Cutting and Forming Totals:				
	Monthly Total			7867	78632
	Y-T-D Total	57549	712764		
	NC Y-T-D Total*	1781	183042		

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
1000000000	Machine tool parts and accessories	0	535700	0	58144
2710003070	Quenching or cutting oils	0	8975	0	1407
8428900010	Industrial robots for lifting, handling, loading or unload	715	10224	30	118
8456100000	Laser, light or photon beam for working any material	2036	32798	63	2088
200000	Ultrasonic process for working any material	83	612	5	143
8477106010	Injection molding mach., for rubber or oth. thermosetting	165	14207	17	901
106050	Injection molding mach., for thermoplastics	333	37170	37	2952
200010	Extruders for rubber or other thermosetting materials	220	9605	48	1674
200050	Extruders for processing thermoplastics	747	30374	64	2657
300000	Blow molding machines	313	23368	29	1524
400000	Vacuum-molding and other thermoforming machines	1384	13172	331	1569
8479899040	Industrial robots, n.e.c.	1857	25660	160	2609
900040	Industrial robot parts	0	10176	0	832
8537100030	Numerical controls for controlling machine tools	8500	31572	231	3136
9024100000	Machines and appliances for testing metals	0	56526	0	5176
9031100000	Machines for balancing mechanical parts	0	17186	0	1292
300000	Profile projectors	0	6279	0	461
9032810040	Industrial process control instr., hydraulic or pneumatic	478142	33109	70356	4343

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	11	116
8462100030	0	0	0	0	0	0	2	299	0	0
100050	0	0	0	0	1	27	1	29	5	141
210080	0	0	0	0	0	0	1	14	2	275
290030	0	0	0	0	0	0	0	0	1	51
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	2	20	11	264
310080	0	0	0	0	0	0	0	0	3	240
390050	0	0	0	0	0	0	0	0	2	14
410080	2	156	0	0	0	0	0	0	16	1658
490050	0	0	0	0	0	0	0	0	30	243
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	7	352
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	126	0	0	1	7	0	0	26	367
8463100080	1	72	0	0	0	0	0	0	1	7
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	1	8	2	31	7	129
900080	1	22	0	0	0	0	0	0	6	87
9800000002	0	0	0	0	0	0	2	83	28	579
9900000002	66	57	0	0	35	32	0	0	138	107
Month Tot	71	434	0	0	38	74	10	476	294	4630
Y-T-D Tot	431	5470	106	662	134	2385	106	5809	2322	33227
NC YTD Tot	23	1183	0	0	0	0	10	701	114	11716
C&F Month	127	1195	7	4	41	436	69	1448	2973	13908
C&F Y-T-D	1139	13656	163	1650	302	7974	447	13422	21927	81703
C&F NC YTD*	36	2447	4	380	31	3478	51	3838	282	29010

Other Manufacturing Technology

1000000000	0	1008	0	139	0	609	0	970	0	10970
2710003070	0	97	0	0	0	3	0	164	0	104
8428900010	0	0	0	0	0	0	0	0	4	20
8456100000	0	0	0	0	1	18	0	0	18	641
200000	0	0	0	0	0	0	0	0	1	50
8477106010	1	128	0	0	0	0	0	0	5	179
106050	0	0	0	0	0	0	1	42	1	153
200010	0	0	0	0	0	0	0	0	0	0
200050	2	416	0	0	0	0	0	0	4	79
300000	0	0	0	0	0	0	0	0	1	437
400000	29	248	0	0	0	0	0	0	14	244
8479899040	0	0	0	0	0	0	3	15	28	578
900040	0	0	0	0	0	4	0	0	0	78
8537100030	7	97	1	8	1	11	0	0	18	263
9024100000	0	139	0	22	0	91	0	5	0	238
9031100000	0	0	0	0	0	0	0	2	0	424
300000	0	4	0	0	0	5	0	0	0	17
9032810040	2488	140	97	11	2270	102	1215	61	3816	436

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	1	13	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	14	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	2	103	0	0	0	0	2	29
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	1	9	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	2	973	0	0	3	17
990030	0	0	0	0	0	0	0	0	1	269
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	3	69	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	892	3	94	0	0	0	0	1	10
900080	0	0	5	133	0	0	0	0	0	0
9800000002	0	0	31	75	0	0	0	0	0	0
9900000002	0	0	4	2	0	0	0	0	0	0
Month Tot	1	892	49	491	4	996	0	0	7	324
Y-T-D Tot	234	8915	369	5832	91	7560	25	152	173	6708
NC YTD Tot	21	522	5	406	4	1067	1	15	5	2547
C&F Month	15	4349	69	950	12	1408	1	322	57	1129
C&F Y-T-D	706	31177	992	15813	278	15999	123	4249	616	17567
C&F NC YTD*	113	14413	52	7014	9	2762	7	1983	13	3718

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	912	0	1454	0	266	0	20	0	1297
2710003070	0	0	0	0	0	0	0	9	0	0
8428900010	0	0	0	0	0	0	0	0	1	5
8456100000	0	0	2	101	6	139	0	0	1	15
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	1	229	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
8479899040	0	0	4	136	0	0	0	0	2	10
900040	0	0	0	69	0	0	0	0	0	0
8537100030	0	0	19	282	0	0	0	0	4	58
9024100000	0	0	0	501	0	15	0	0	0	104
9031100000	0	309	0	0	0	0	0	0	0	11
300000	0	0	0	0	0	0	0	0	0	12
9032810040	0	0	4230	297	102	9	8	5	7258	419

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	7	12	0	0	0	0	2	17	0	0
8462100030	2	390	1	816	0	0	1	6	0	0
100050	9	178	4	93	0	0	31	379	0	0
210080	1	25	9	359	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	8	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	4	86	0	0	0	0	2	18	3	79
310080	2	87	0	0	0	0	0	0	0	0
390050	10	157	2	153	0	0	0	0	0	0
410080	0	0	0	0	0	0	1	140	0	0
490050	3	82	2	38	1	9	11	92	0	0
910060	0	0	0	0	0	0	1	8	0	0
910090	0	0	7	1339	0	0	43	522	0	0
990030	1	174	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	15	434	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	5	92	0	0	0	0	9	191	2	19
900080	14	239	5	2464	0	0	5	56	0	0
9800000002	0	0	8	1050	1	29	64	489	0	0
9900000002	0	0	0	0	0	0	27	31	0	0
Month Tot	58	1521	38	6312	2	38	213	2393	5	98
Y-T-D Tot	771	36895	810	50517	24	1378	2652	32142	361	5750
NC YTD Tot	95	7350	45	3618	6	922	41	3270	19	2326
C&F Month	411	4756	212	11536	13	241	1148	8415	21	197
C&F Y-T-D	3443	61247	2300	83720	104	2305	8374	81553	767	9274
C&F NC YTD*	217	15339	157	16493	9	1058	182	13798	38	4226

Other Manufacturing Technology

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	5542	0	2725	0	250	0	4250	0	544
2710003070	0	35	0	0	0	37	0	58	0	0
8428900010	0	0	0	0	0	0	22	41	0	0
8456100000	19	621	1	17	0	0	1	25	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	1	85	0	0	0	0	8	331	0	0
106050	0	0	0	0	0	0	7	351	15	1156
200010	0	0	13	314	0	0	8	494	0	0
200050	0	0	0	0	1	20	31	1119	0	0
300000	0	0	2	41	0	0	9	537	0	0
400000	7	26	1	3	0	0	22	411	1	37
8479899040	51	693	1	51	0	0	0	0	0	0
900040	0	184	0	105	0	0	0	8	0	17
8537100030	1	14	3	41	0	0	2	44	1	69
9024100000	0	945	0	920	0	3	0	165	0	309
9031100000	0	19	0	78	0	5	0	189	0	0
300000	0	122	0	30	0	0	0	0	0	0
9032810040	3033	237	259	84	0	0	279	53	6320	351

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	5	25	1	12
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	3	47	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	18	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	19	0	0	3	35
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	17	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	4	2	301	0	0	0	0	0	0
910060	0	0	1	94	0	0	1	11	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	6	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
900080	1	15	0	0	0	0	3	2963	0	0
9800000002	3	9	0	0	1	15	6	100	2	39
9900000002	2	2	0	0	0	0	59	50	0	0
Month Tot	8	35	6	443	2	34	76	3185	6	86
Y-T-D Tot	170	6645	98	3693	41	1214	221	15054	72	3320
NC YTD Tot	15	2546	1	94	8	375	12	1425	5	414
C&F Month	43	478	8	477	9	290	129	4701	6	86
C&F Y-T-D	831	12995	318	6500	276	4224	797	22221	156	5196
C&F NC YTD*	45	4716	2	771	24	1989	46	3987	23	1069

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1233	0	527	0	839	0	840	0	721
2710003070	0	40	0	0	0	0	0	249	0	2
8428900010	0	0	0	0	0	0	0	0	0	0
8456100000	3	78	0	0	0	0	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	1	30	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	11	515	0	0
200050	0	0	0	0	0	0	5	123	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	219	50	0	0	0	0
8479899040	1	7	1	51	0	0	0	0	0	0
900040	0	5	0	0	0	3	0	6	0	0
8537100030	5	78	4	32	1	13	10	139	0	0
9024100000	0	72	0	20	0	21	0	706	0	11
9031100000	0	0	0	0	0	5	0	0	0	39
300000	0	14	0	160	0	0	0	4	0	0
9032810040	3899	274	544	37	442	22	657	36	10010	30

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
*** "C&F NC YTD" does not include code 8456300000.**
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	28	0	0	0	0	1	2	4	29
8462100030	0	0	0	0	0	0	0	0	0	0
100050	20	386	0	0	9	187	1	25	19	377
210080	0	0	0	0	0	0	0	0	6	281
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	27
290050	1	54	0	0	0	0	5	173	3	1164
310080	1	69	1	69	0	0	0	0	1	41
390050	0	0	0	0	0	0	0	0	21	352
410080	0	0	0	0	0	0	0	0	1	34
490050	2	6	0	0	0	0	2	938	3	46
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	1	125	2	21
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	694	0	0	0	0	1	14
990060	4	196	0	0	0	0	2	431	1	87
8463100080	0	0	0	0	0	0	0	0	5	122
200080	0	0	0	0	0	0	0	0	0	0
300080	5	175	2	106	0	0	2	184	1	356
900080	1	9	0	0	1	13	6	81	75	2126
9800000002	1	5	0	0	0	0	13	767	19	215
9900000002	15	13	0	0	0	0	3	2	33	16
Month Tot	52	942	4	869	10	200	36	2728	196	5310
Y-T-D Tot	1005	35021	6	977	180	7686	707	20012	2953	58026
NC YTD Tot	50	2625	3	176	3	89	6	904	48	4288
C&F Month	293	3050	16	6128	38	638	230	4236	1919	8253
C&F Y-T-D	3169	72060	38	7456	454	12799	2154	43219	7675	84787
C&F NC YTD*	189	23975	25	3415	10	690	69	9672	147	12800

Other Manufacturing Technology

1000000000	0	7584	0	26	0	644	0	6070	0	8706
2710003070	0	20	0	0	0	4	0	0	0	586
8428900010	1	30	0	0	0	0	2	22	0	0
8456100000	2	46	0	0	0	0	3	244	6	144
200000	4	93	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	1	82	1	95
106050	4	286	0	0	0	0	4	419	4	515
200010	0	0	0	0	0	0	16	352	0	0
200050	1	5	0	0	0	0	1	30	18	635
300000	6	6	0	0	0	0	8	426	3	77
400000	2	3	0	0	0	0	34	462	2	85
8479899040	5	305	1	50	0	0	49	558	14	157
900040	0	203	0	0	0	0	0	102	0	46
8537100030	107	1314	0	0	0	0	32	459	15	215
9024100000	0	148	0	4	0	8	0	445	0	283
9031100000	0	55	0	0	0	17	0	5	0	134
300000	0	26	0	0	0	0	0	0	0	66
9032810040	8843	656	1	10	2502	136	8105	600	3978	339

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	0	0	48	695	48	695
East Germany	0	0	0	0	0	0
Finland	0	0	1	27	1	27
Greece	0	0	1	34	1	34
Hungary	0	0	2	83	2	83
Iceland	0	0	0	0	0	0
Ireland	0	0	18	343	18	343
Luxembourg	0	0	0	0	0	0
Norway	1	14	0	0	1	14
Poland	0	0	5	1345	5	1345
Portugal	2	14	0	0	2	14
Romania	0	0	0	0	0	0
Sweden	11	42	26	406	37	448
Turkey	1	46	1	7	2	53
Yugoslavia	8	116	1	87	9	203
Oth Europe	0	0	0	0	0	0
TOTAL	575	11128	302	9030	877	20157
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	2	25	0	0	2	25
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	133	54	3	8	136	61
Dominican Rep	12	11	5	110	17	121
El Salvador	1	2	5	15	6	17
Guatemala	0	0	7	57	7	57
Haiti	0	0	1	10	1	10
Honduras	0	0	0	0	0	0
Jamaica	6	319	1	16	7	336
Panama	0	0	1	45	1	45
Trinidad	0	0	1	6	1	6
Oth N & C Am.	0	0	2	60	2	60
TOTAL	3768	15712	533	7349	4301	23061
SOUTH AMERICA						
Argentina	0	0	3	59	3	59
Bolivia	0	0	0	0	0	0
Chile	137	473	1	35	138	508
Colombia	77	107	2	364	79	471
Ecuador	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	5	51	0	0	5	51
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	306	2041	26	1134	332	3175
OCEANIA						
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	56	761	71	434	127	1195

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	1248	182	13	340	1261	522
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	15	261	1	26	16	287
Jordan	0	0	0	0	0	0
Kuwait	11	39	0	0	11	39
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	2	2	0	0	2	2
Oman	0	0	0	0	0	0
Pakistan	2	2	0	0	2	2
Philippines	34	140	4	84	38	223
Qatar	0	0	0	0	0	0
Saudi Arabia	9	745	41	1039	50	1784
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	0	0	0	0	0	0
Vietnam	0	0	0	0	0	0
Oth Asia	2	21	0	0	2	21
TOTAL	1972	16206	252	14553	2224	30759
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	2	169	1	5	3	174
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	1	6	1	5	2	11
South Africa	1	100	0	0	1	100
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	4	275	2	10	6	285

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:

Total for Metal Cutting and Metal Forming appears in Metal Forming Section.

Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.

n.e.c. - Not elsewhere classified.

* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS

Metal Cutting Machine Tools - January 89 - September 89

RELEASED: November 29, 1989

		TOTAL YTD	
		UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC	548	45617
301030	Traveling wire electro-discharge machines, non-NC	212	14364
301050	Electro-discharge machines, n.e.c., NC	135	7188
301070	Electro-discharge machines, n.e.c., non-NC	266	9986
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1772	144110
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	167	22214
100035	Horiz. mach. ctrs., ATC	597	103529
100045	Mach. ctrs., n.e.c.	238	33848
200010	Unit construction mach. (single station transfer), NC	19	3356
200090	Unit construction mach. (single station transfer), non-NC	15	777
300010	Multi-station transfer machines, NC	25	19923
300090	Multi-station transfer machines, non-NC	97	24958
8458110010	Horiz. lathes, multiple spindle, NC	266	41411
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2403	177921
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	487	64082
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	67	10032
190030	Horiz. engine or toolroom lathes, non-NC	2207	21151
190050	Automatic bar and/or chucking mach., single spindle, non-NC	324	10563
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	76	3940
190090	Horiz. lathes, n.e.c., non-NC	740	10046
911060	Vertical turret lathes, multiple spindle, NC	22	8215
911080	Vertical turret lathes, n.e.c., NC	38	4686
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	682
915070	Vertical lathes, excl. VTL's, n.e.c., NC	58	5591
991050	Vertical turret lathes, non-NC	56	3117
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	585	16244
8459100000	Way-type unit head machines	8	541
210080	Other drilling machines, NC	361	30237
290040	Drilling machines, multiple spindle, non-NC	88	5544
290050	Drilling machines, radial, non-NC	364	2236
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	185	1451
290090	Drilling machines, n.e.c., non-NC	416	23521
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	11	2974
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	131	12120
310070	Boring-milling mach., n.e.c., NC	50	2875
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	31	1031
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	149	5240
400040	Boring machines, vertical, NC	15	6228
400050	Boring machines, vertical, non-NC	39	525
400070	Boring machines, n.e.c., NC	10	2459
400080	Boring machines, n.e.c., non-NC	208	12809
510080	Milling machines, knee type, NC	962	13539
590030	Milling machines, knee type, non-NC	2581	24134
610080	Milling machines, excl. knee type, n.e.c., NC	341	34011
690050	Milling machines, profile, dup., or die sinking, non-NC	53	611
690070	Milling machines, bed type, non-NC	82	2473
690090	Milling machines, n.e.c., non-NC	458	12851
700020	Threading or tapping machines, n.e.c., NC	222	11847
700080	Threading or tapping machines, n.e.c., non-NC	227	8154
8460110080	Flat surface grinding mach., NC	135	10316
190010	Flat surface grinding mach., recip.-table type, non-NC	832	9200
190050	Flat surface grinding mach., n.e.c., non-NC	1354	15507
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	423	74799
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	301	10862
290030	Grinding mach., internal cylindrical, non-NC	121	10530
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	992	36487
310080	Sharpening machines (tool & cutter grinding), NC	255	3051
390050	Sharpening machines (tool & cutter grinding), non-NC	504	6791
400060	Honing or lapping machines, NC	31	6200
400080	Honing or lapping machines, non-NC	124	4127
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	44	4378
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	999	26600
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	4	84
200010	Shaping or slotting machines, NC	31	2381
200090	Shaping or slotting machines, non-NC	45	2278
300060	Broaching machines, NC	10	2317
300080	Broaching machines, non-NC	43	4021
401050	Gear hobbers	85	14787
401070	Gear shapers	10	1301
401090	Gear cutting machines, n.e.c.	281	949
405060	Gear grinding or finishing machines	155	16419
500050	Sawing or cutting-off machines, NC	101	2522
500090	Sawing or cutting-off machines, non-NC	1399	18667
9000000001	Metal cutting machine tools, n.e.c.	523	12699
9800000001	Used or rebuilt machine tools	5429	33018
9900000001	Machine tools valued at less than $2,500	503794	71686
	Y-T-D Cutting Total	536439	1426942
	NC Y-T-D Cutting Total	10022	917047

Please see notes on last page
of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - January 89 - September 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	2	74	0	0	0	0	0	0	0	0
301030	0	0	0	0	7	205	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	1	2	12	214	1	8
8457100015	0	0	0	0	1	77	6	474	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	51	2483
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	217
300010	0	0	0	0	0	0	0	0	5	2962
300090	0	0	0	0	16	2212	0	0	7	3544
8458110010	0	0	0	0	1	109	0	0	1	239
110030	0	0	10	59	0	0	6	364	0	0
110050	0	0	3	9	0	0	14	1159	0	0
110090	0	0	0	0	0	0	2	128	1	382
190030	0	0	147	1178	9	78	0	0	1	7
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	3	413	2493	0	0	3	19	7	292
911060	0	0	0	0	0	0	0	0	1	628
911080	0	0	0	0	0	0	0	0	1	45
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	1	16	0	0	0	0	2	161
991050	0	0	8	30	0	0	0	0	0	0
995090	0	0	37	167	22	311	1	95	26	709
8459100000	0	0	0	0	0	0	0	0	1	133
210080	0	0	0	0	4	19	0	0	12	1004
290040	0	0	0	0	0	0	0	0	10	45
290050	0	0	27	205	0	0	0	0	11	51
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	17	502	46	11609	46	1490
310010	0	0	1	230	0	0	0	0	0	0
310040	0	0	20	460	1	38	0	0	7	907
310070	0	0	0	0	0	0	0	0	10	738
390040	0	0	0	0	0	0	0	0	4	156
390050	0	0	0	0	6	108	0	0	18	581
400040	0	0	0	0	0	0	0	0	1	32
400050	0	0	0	0	0	0	0	0	24	370
400070	0	0	0	0	0	0	0	0	3	37
400080	20	84	0	0	22	265	0	0	68	595
510080	4	124	0	0	1	4	2	6	0	0
590030	0	0	0	0	1	3	26	267	7	2795
610080	0	0	0	0	3	2936	10	28	7	1332
690050	0	0	0	0	0	0	0	0	1	4
690070	0	0	0	0	0	0	0	0	0	0
690090	4	747	0	0	8	106	2	53	15	1233
700020	5	185	0	0	0	0	0	0	4	58
700080	0	0	0	0	0	0	20	234	0	0
8460110080	0	0	0	0	0	0	1	20	5	893
190010	0	0	0	0	0	0	0	0	76	1163
190050	0	0	3	79	21	158	10	26	24	368
210080	0	0	0	0	0	0	1	3	3	442
290010	0	0	1	114	24	233	1	105	3	110
290030	0	0	0	0	0	0	0	0	5	1165
290050	1	5	0	0	179	2441	12	196	25	1109
310080	0	0	0	0	0	0	1	22	1	19
390050	0	0	1	6	45	179	1	21	20	197
400060	0	0	0	0	3	30	0	0	0	0
400080	0	0	0	0	1	5	0	0	1	144
900060	0	0	0	0	3	13	0	0	11	165
900080	1	36	2	9	24	391	54	249	120	3902
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	48	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	5	351
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	12	1	5	91	442
405060	0	0	0	0	2	18	0	0	12	52
500050	0	0	0	0	0	0	0	0	0	0
500090	21	158	2	17	200	2521	12	311	167	835
9000000001	1	4	0	0	34	1077	94	1676	9	912
9800000001	50	3057	0	0	1454	1188	11	79	57	526
9900000001	216	24	81	37	733	398	963	606	25348	4604
Y-T-D Tot	326	4501	757	5110	2846	15685	1312	17967	26337	40635
NC YTD Tot	11	383	35	775	17	3226	43	2203	126	12527

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 89 - September 89

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	45	1159	14	109	16	180	1	6	6	287
8462100030	0	0	0	0	1	1070	0	0	0	0
100050	3	635	5	344	6	125	0	0	2	196
210080	0	0	3	76	2	123	1	15	3	1191
290030	0	0	0	0	6	289	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	55	14	470	7	985	0	0	16	355
310080	0	0	0	0	0	0	0	0	0	0
390050	1	9	1	32	1	32	0	0	0	0
410080	2	203	0	0	0	0	0	0	0	0
490050	34	652	12	263	8	558	0	0	13	657
910060	19	318	0	0	1	877	0	0	0	0
910090	0	0	5	46	2	973	1	6	4	55
990030	0	0	2	330	1	67	0	0	2	1357
990040	2	170	20	497	0	0	0	0	0	0
990060	0	0	33	2068	4	24	0	0	1	63
8463100080	0	0	4	81	0	0	0	0	1	27
200080	1	195	1	40	0	0	0	0	0	0
300080	50	2217	40	827	5	53	0	0	31	1396
900080	0	0	9	217	11	1862	1	29	24	583
9800000002	76	3301	67	351	5	328	7	84	25	520
9900000002	0	0	139	81	15	14	14	12	45	21
Y-T-D Tot	234	8915	369	5832	91	7560	25	152	173	6708
NC YTD Tot	21	522	5	406	4	1067	1	15	5	2547
C&F YTD	706	31177	992	15813	278	15999	123	4249	616	17567
C&F NC YTD*	113	14413	52	7014	9	2762	7	1983	13	3718

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
1000000000	0	7155	0	12466	0	4276	0	243	0	12156
2710003070	0	8	0	39	0	279	0	164	0	85
8428900010	36	363	98	498	[illegible]	0	0	0	3	138
8456100000	6	466	34	1111	19	658	0	0	6	261
200000	0	0	0	0	1	25	0	0	0	0
8477106010	0	0	4	334	0	0	0	0	3	416
106050	0	0	1	368	0	0	0	0	4	323
200010	0	0	4	106	10	342	0	0	0	0
200050	17	2045	32	821	0	0	0	0	7	178
300000	1	576	12	1569	4	93	0	0	23	212
400000	25	2321	11	641	4	90	1	11	3	152
8479899040	10	60	103	2053	2	294	0	0	28	426
900040	0	116	0	273	0	59	0	0	0	72
8537100030	163	747	878	2700	13	41	0	0	381	927
9024100000	0	1305	0	1387	0	369	0	2	0	1289
9031100000	0	364	0	30	0	865	0	4	0	34
300000	0	0	0	5	0	0	0	0	0	122
9032810040	7631	1164	30979	1883	965	124	10	8	32019	2452

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 89 - September 89

Metal Forming	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	13	194	20	501	2	17	18	340	1	6
8462100030	21	3830	6	3284	0	0	6	41	0	0
100050	87	4547	23	506	0	0	113	2098	1	31
210080	77	4786	39	2949	0	0	19	920	1	17
290030	5	206	1	49	0	0	8	282	0	0
290040	0	0	0	0	0	0	17	740	0	0
290050	21	1357	33	1844	1	7	65	1803	10	173
310080	9	436	2	52	0	0	3	162	1	40
390050	12	183	2	153	1	20	29	419	1	14
410080	3	1321	4	618	5	905	7	1549	16	2185
490050	29	514	29	3237	1	9	92	1641	0	0
910060	2	112	0	0	1	17	9	272	1	84
910090	7	1438	26	2768	0	0	252	2691	3	48
990030	4	695	0	0	0	0	3	366	0	0
990040	21	636	9	294	1	51	15	592	0	0
990060	23	1315	11	1651	0	0	219	4776	0	0
8463100080	41	1009	5	100	0	0	24	483	0	0
200080	6	274	1	93	0	0	7	1511	0	0
300080	20	480	6	134	6	81	47	692	4	48
900080	124	12448	417	23300	2	11	113	1592	10	77
9800000002	31	1010	162	8978	4	260	931	8536	178	2920
9900000002	215	102	14	8	0	0	655	634	134	106
Y-T-D Tot	771	36895	810	50517	24	1378	2652	32142	361	5750
NC YTD Tot	95	7350	45	3618	6	922	41	3270	19	2326
C&F YTD	3443	61247	2300	83720	104	2305	8374	81553	767	9274
C&F NC YTD*	217	15339	157	16493	9	1058	182	13798	38	4226
Other Manufacturing Technology										
1000000000	0	49636	0	36195	0	2913	0	44481	0	4848
2710003070	0	408	0	189	0	56	0	357	0	49
8428900010	77	764	7	658	0	0	77	2279	0	0
8456100000	1175	11091	4	348	4	840	67	480	5	158
200000	60	31	0	0	0	0	2	23	0	0
8477106010	2	139	8	1969	16	1729	70	4996	0	0
106050	6	795	15	4285	0	0	55	5891	16	1236
200010	10	1037	27	1448	0	0	77	3341	0	0
200050	37	436	39	437	4	82	124	5540	5	146
300000	3	53	40	2185	0	0	108	3386	1	15
400000	141	353	52	534	0	0	105	2217	56	441
8479899040	142	4465	31	1380	1	10	7	107	34	197
900040	0	2030	0	596	0	11	0	318	0	32
8537100030	214	2271	738	845	28	69	220	549	96	658
9024100000	0	13202	0	7185	0	950	0	1858	0	827
9031100000	0	589	0	3783	0	41	0	2403	0	67
300000	0	4322	0	225	0	0	0	7	0	6
9032810040	31790	2865	4587	771	131	17	32233	1225	55282	3096

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8465300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 89 - September 89

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	2	0	0	1	8	9	74	2	16
8462100030	0	0	0	0	0	0	0	0	6	676
100050	10	301	4	172	0	0	4	60	3	57
210080	0	0	0	0	6	197	4	510	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	1	11	0	0
290050	22	968	3	96	6	101	3	38	4	40
310080	5	1367	0	0	0	0	0	0	0	0
390050	0	0	26	713	0	0	2	72	0	0
410080	8	833	0	0	1	113	2	233	3	215
490050	9	77	21	786	10	88	30	965	11	169
910060	0	0	1	94	0	0	3	449	2	199
910090	3	53	2	134	3	144	4	405	0	0
990030	2	346	0	0	1	65	3	233	0	0
990040	2	924	0	0	0	0	0	0	0	0
990060	3	23	10	412	0	0	4	633	1	10
8463100080	28	382	2	55	0	0	1	10	5	166
200080	0	0	2	144	0	0	0	0	0	0
300080	2	37	13	421	2	30	6	98	9	309
900080	7	1010	8	419	10	453	54	10758	7	168
9800000002	17	261	4	244	1	15	25	449	17	1293
9900000002	51	60	2	2	0	0	66	57	2	3
Y-T-D Tot	170	6645	98	3693	41	1214	221	15054	72	3320
NC YTD Tot	15	2546	1	94	8	375	12	1425	5	414
C&F YTD	831	12995	318	6500	276	4224	797	22221	156	5196
C&F NC YTD*	45	4716	2	771	24	1989	46	3987	23	1069

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	8617	0	5143	0	6850	0	9383	0	2641
2710003070	0	292	0	204	0	76	0	1860	0	105
8428900010	7	48	0	0	13	16	0	0	0	0
8456100000	9	231	5	91	2	40	37	2632	0	0
200000	0	0	6	158	1	17	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	13	1238	6	484	3	208	24	1538	0	0
200010	1	60	0	0	0	0	13	565	0	0
200050	3	549	1	200	0	0	67	1479	0	0
300000	0	0	1	263	1	12	5	96	5	1126
400000	12	113	0	0	261	300	2	12	1	8
8479899040	19	116	12	170	50	688	64	510	0	0
900040	0	90	0	52	0	142	0	40	0	0
8537100030	90	243	26	136	453	645	136	574	14	88
9024100000	0	1592	0	2049	0	328	0	2983	0	113
9031100000	0	707	0	29	0	44	0	196	0	43
300000	0	42	0	160	0	37	0	240	0	0
9032810040	18749	1279	19374	1053	1398	192	10675	675	11282	96

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 89 - September 89

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	24	181	0	0	26	1325	38	150	54	630
8462100030	0	0	0	0	0	0	4	968	2	1269
100050	81	1766	0	0	12	239	6	241	101	3402
210080	26	1126	0	0	1	19	1	71	34	3106
290030	1	124	0	0	0	0	0	0	0	0
290040	1	25	0	0	0	0	0	0	11	334
290050	21	855	0	0	9	142	28	1317	52	3455
310080	13	465	1	69	1	34	0	0	2	146
390050	9	170	0	0	0	0	1	63	31	555
410080	3	745	0	0	1	36	3	783	3	77
490050	65	3354	0	0	2	118	37	1343	88	2846
910060	7	139	2	108	0	0	0	0	7	599
910090	8	1505	0	0	5	1270	9	2231	42	2659
990030	1	150	0	0	0	0	2	50	2	360
990040	32	1428	1	694	0	0	0	0	11	559
990060	25	4551	0	0	11	204	27	5071	32	2134
8463100080	7	62	0	0	1	12	34	728	42	1032
200080	1	19	0	0	0	0	0	0	5	173
300080	237	11856	2	106	22	550	49	1939	111	2920
900080	72	5274	0	0	12	419	82	3471	616	17107
9800000002	42	1055	0	0	55	3300	41	1336	653	13966
9900000002	329	170	0	0	22	18	345	250	1054	699
Y-T-D Tot	1005	35021	6	977	180	7686	707	20012	2953	58026
NC YTD Tot	50	2625	3	176	3	89	6	904	48	4288
C&F YTD	3169	72060	38	7456	454	12799	2154	43219	7675	84787
C&F NC YTD"	189	23975	25	3415	10	690	69	9672	147	12800

Other Manufacturing Technology

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	65640	0	245	0	10858	0	47167	0	89438
2710003070	0	99	0	0	0	491	0	103	0	1901
8428900010	21	955	0	0	0	0	81	385	53	136
8456100000	163	2035	8	193	0	0	62	3209	248	5472
200000	8	146	0	0	0	0	0	0	1	26
8477106010	3	179	4	565	2	148	5	922	21	1316
106050	23	1877	0	0	6	689	20	2266	28	2170
200010	0	0	0	0	5	59	44	1690	12	242
200050	37	2506	0	0	12	1709	27	868	124	5892
300000	10	605	5	1976	35	642	15	1464	20	3892
400000	134	1156	0	0	2	12	61	567	101	1232
8479899040	152	2170	1	50	2	9	649	5856	122	1312
900040	0	2975	0	0	0	3	0	802	0	494
8537100030	2322	10560	0	0	134	72	1336	4448	585	2961
9024100000	0	4156	0	208	0	259	0	4447	0	5130
9031100000	0	1150	0	0	0	104	0	592	0	2002
300000	0	436	0	0	0	0	0	275	0	140
9032810040	47239	3597	1	10	4394	805	35152	2396	52545	3956

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

" "C&F NC YTD" does not include code 8465300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 89 - September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	4	145	0	0	4	145
Czechoslovakia	1	146	0	0	1	146
Denmark	11	205	124	1325	135	1530
East Germany	0	0	0	0	0	0
Finland	284	150	21	296	305	446
Greece	15	563	8	1448	23	2011
Hungary	19	160	2	83	21	243
Iceland	0	0	0	0	0	0
Ireland	28	636	61	5163	89	5800
Luxembourg	0	0	0	0	0	0
Norway	22	143	37	669	59	811
Poland	34	433	13	2964	47	3396
Portugal	19	113	16	473	35	586
Romania	0	0	0	0	0	0
Sweden	192	2242	151	4429	343	6670
Turkey	23	2069	12	419	35	2488
Yugoslavia	11	181	15	364	26	546
Oth Europe	0	0	2	95	2	95
TOTAL	6458	110667	3462	99981	9920	210648
NORTH AND CENTRAL AMERICA						
Bahamas	62	88	5	48	67	135
Barbados	9	39	6	25	15	64
Belize	0	0	0	0	0	0
Bermuda	8	211	1	3	9	214
Costa Rica	181	363	16	77	197	440
Dominican Rep	48	300	61	647	109	947
El Salvador	18	383	8	39	26	421
Guatemala	18	52	35	1015	53	1066
Haiti	0	0	11	30	11	30
Honduras	7	73	13	185	20	257
Jamaica	67	423	13	127	80	550
Panama	11	99	5	110	16	209
Trinidad	12	43	7	62	19	105
Oth N & C Am.	7	93	77	646	84	739
TOTAL	25775	100053	5232	68381	31007	168434
SOUTH AMERICA						
Argentina	210	1418	385	774	595	2192
Bolivia	0	0	0	0	0	0
Chile	210	1367	332	3083	542	4450
Colombia	371	1790	738	2619	1109	4409
Ecuador	3	8	9	193	12	201
Paraguay	2	6	0	0	2	6
Peru	10	89	33	675	43	763
Uruguay	14	135	0	0	14	135
Oth South Am.	6	139	4	69	10	208
TOTAL	1441	17679	1787	20908	3228	38587
OCEANIA						
New Zealand	22	270	4	56	26	326
Oth Oceania	5	126	5	73	10	200
TOTAL	735	8582	440	5599	1175	14181

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 89 - September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	2	1634	2	1634
Hong Kong	1970	3157	290	6394	2260	9550
Iran	0	0	5	730	5	730
Iraq	24	1283	22	1995	46	3279
Israel	77	1608	77	2729	154	4337
Jordan	2	12	2	60	4	72
Kuwait	17	119	2	124	19	242
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	8	11	0	0	8	11
Oman	1	12	0	0	1	12
Pakistan	9	1026	31	780	40	1805
Philippines	261	997	42	1020	303	2018
Qatar	0	0	0	0	0	0
Saudi Arabia	100	1601	163	4236	263	5837
Sri Lanka	11	17	0	0	11	17
Syria	1	4	1	5	2	9
United Arab Emr	22	222	0	0	22	222
Vietnam	0	0	0	0	0	0
Oth Asia	20	84	47	831	67	914
TOTAL	8843	118824	3102	150974	11945	269798
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	18	349	5	70	23	418
Ethiopia	8	43	0	0	8	43
Gabon	0	0	0	0	0	0
Ghana	3	98	1	77	4	175
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	1	16	1	16
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	4	435	2	7	6	442
South Africa	182	955	24	8822	206	9777
Sudan	10	7	0	0	10	7
Swaziland	0	0	0	0	0	0
Tunisia	0	0	1	21	1	21
Zaire	1	2	0	0	1	2
Zambia	0	0	0	0	0	0
Zimbabwe	4	11	2	15	6	26
Oth Africa	5	10	3	180	8	190
TOTAL	235	1909	39	9208	274	11117

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICS

No. 01-90 January 3, 1990

U.S. FOREIGN TRADE -- OCTOBER 1989

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY

(Millions of U.S. Dollars)

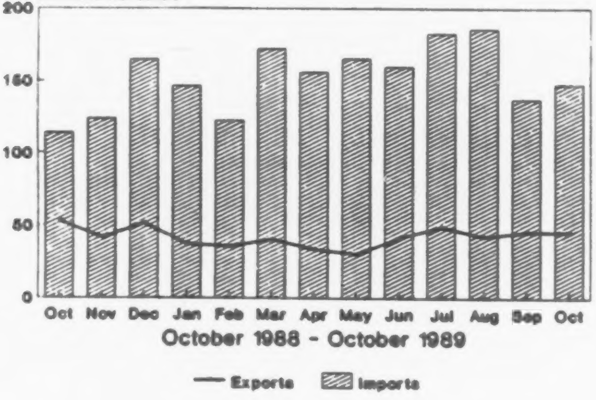
	Oct. 1989	Sept. 1989	% Change Sept.-Oct.	Year to Date '89	Year to Date '88	% Change '88-'89
METAL CUTTING MACHINE TOOLS						
Imports	$147.5	$137.2	7.5%	$1,574.5	$1,255.2	25.4%
Exports	$ 46.0	$ 46.1	(0.2%)	$ 403.7	$ 350.3	15.2%
Balance	($101.5)	($ 91.1)	11.4%	($1,170.8)	($ 904.9)	29.4%
METAL FORMING MACHINE TOOLS						
Imports	$ 36.3	$ 35.9	1.1%	$462.1	$409.7	12.8%
Exports	$ 28.2	$ 32.5	(13.2%)	$383.3	$261.1	46.8%
Balance	($ 8.1)	($ 3.4)	138.2%	($ 78.8)	($148.6)	(47.0%)
MACHINE TOOL TOTAL						
Imports	$183.8	$173.1	6.2%	$2,036.6	$1,664.9	22.3%
Exports	$ 74.2	$ 78.6	(5.6%)	$ 787.0	$ 611.4	28.7%
Balance	($109.6)	($ 94.4)	16.1%	($1,249.6)	($1,053.5)	18.6%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Imports	$104.8	$101.6	3.1%	$1,094.3	NA	NA
Exports	$ 26.8	$ 26.5	1.1%	$ 209.9	NA	NA
Balance	($ 78.0)	($ 75.1)	3.9%	($ 884.4)	NA	NA
OTHER MANUFACTURING TECHNOLOGY						
Imports	$111.5	$80.5	38.5%	$1,184.0	NA	NA
Exports	$101.1	$91.0	11.1%	$ 997.9	NA	NA
Balance	($ 10.4)	$10.5	NM	($ 186.1)	NA	NA

Note: Numerically controlled machine tools includes both metal cutting and metal forming machines, and is included in the respective totals. NA = not available; NM = not meaningful; ( ) denotes negative; individual items may not add up to totals due to rounding.

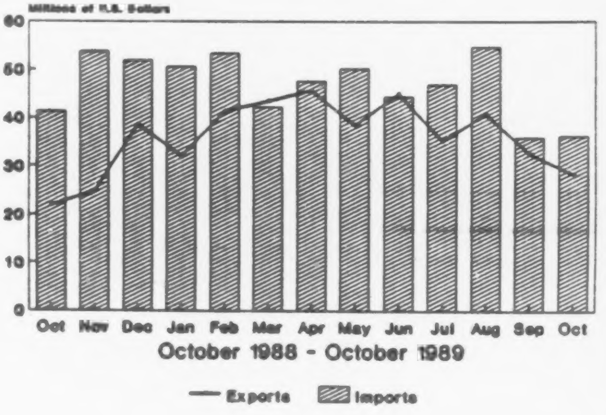
During October 1989, exports of machine tools fell 6% compared with September to $74.2 million; imports of machine tools rose 6% to $183.8 million. Although October 1989 was the fourth consecutive month in which U.S. machine tool exports fell, year-to-date export totals are 29% higher compared with 1988. Year-to-date machine tool imports are 22% higher this year than last, though October's imports were the third lowest in 1989. Both exports and imports of NC machines rose slightly, to $26.8 million and $104.8 million respectively. The overall machine tool trade deficit in October was $109.6 million, up 16% from September.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



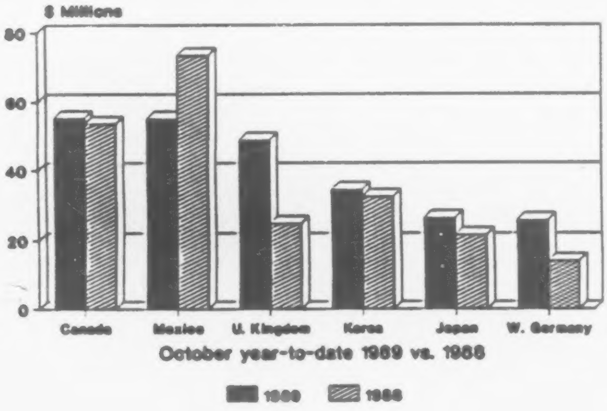
METAL CUTTING

Exports

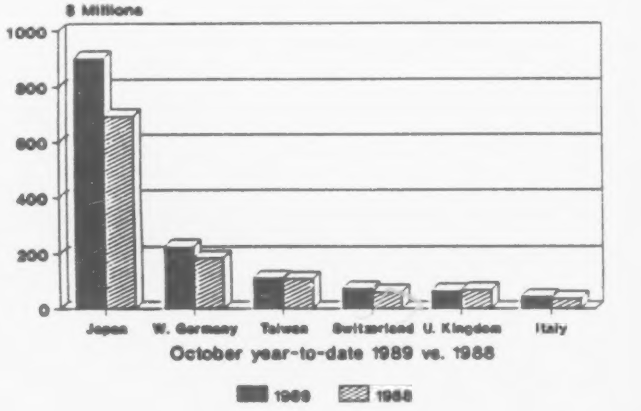
Exports of metal cutting machine tools fell slightly in October compared with September to $46.0 million. Exports of drilling machines rose 54% to $2.6 million; exports of grinding machines rose 14% to $12.0 million; and exports of milling machines more than doubled to $3.2 million. The United Kingdom was the top metal cutting export market in October at $11.8 million (the highest monthly metal cutting export total to one country since October 1988), for a year-to-date total of $48.8 million. The U.K. total in October included two multi-station transfer machines worth $5.0 million. Exports of two gear grinding machines worth $2.5 million went to the Soviet Union. Canada and Mexico are essentially tied as the top year-to-date export market for U.S. metal cutting machines, at $55.2 million and $55.0 million, respectively.

METAL CUTTING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS



LEADING U.S. IMPORT SOURCES



Imports

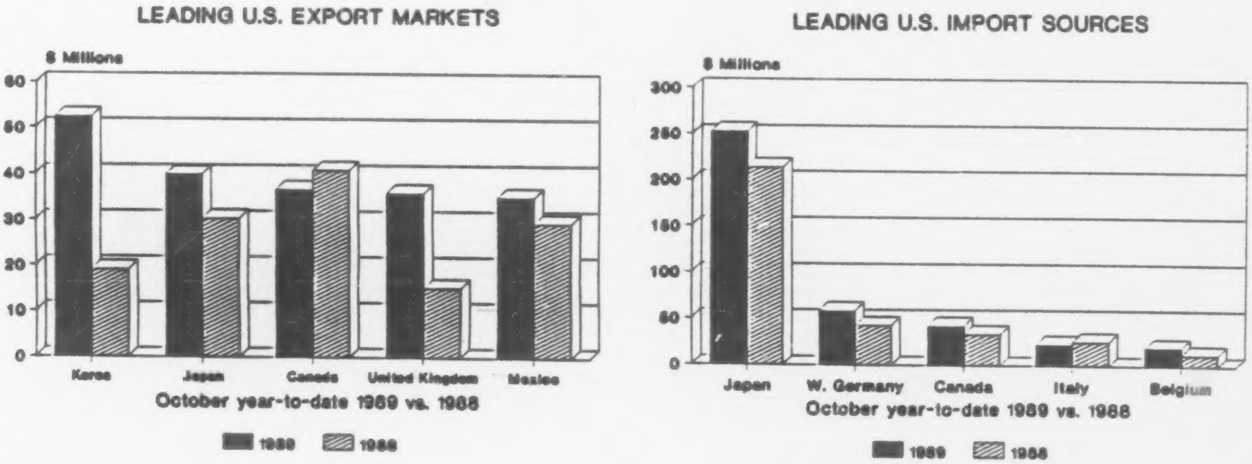
U.S. metal cutting machine tool imports in October rose 8% compared with September to $147.5 million, despite a 10% drop in imports from Japan: imports of West German machines rose 34% to $24.5 million while imports of Taiwanese machines rose 61% to $17.0 million. Imports of machining centers rose 19% to $41.2 million; imports of non-NC lathes rose 83% to $8.4 million; and imports of milling machines rose 62% to $11.2 million. Year-to-date 1989 imports of cutting machines from most major sources are up significantly compared with 1988, with especially large increases from France ($18.9 million so far in 1989, up 117% over 1988); Korea ($21.7 million, 102%) and Singapore ($14.3 million, 62%).

METAL FORMING

Exports

U.S. exports of metal forming machine tools fell 13% from September to October, a second consecutive monthly decline. Nevertheless, year-to-date exports of metal forming machines are 47% higher than last year. The largest export market in October was Canada at $3.3 million, down 28% from September, followed by Japan and Mexico at $2.9 million. Exports to Korea plummeted 71% to $1.8 million. Exports of presses in October totalled $8.5 million, the highest monthly total so far in 1989. Exports of "other metal forming" machines, however, dropped to $6.8 million, their lowest level of the year.

METAL FORMING MACHINE TOOL FOREIGN TRADE



Imports

Imports of metal forming machine tools rose marginally in October compared with September to $36.3 million. Imports from Japan fell 30% to $12.4 million, while imports from West Germany rose 19% to $6.2 million. Imports of forging machines rose 67% to $6.1 million in October from September; imports of "other metal forming" machines fell 44% to $7.8 million. Year-to-date metal forming imports of $462.1 million are 13% higher this year than last – imports from Canada, Japan, Taiwan, Belgium and West Germany are ahead of last year's pace, while imports from Italy, Switzerland, Sweden and Brazil are behind last year's pace.

OTHER MANUFACTURING TECHNOLOGY

Exports

U.S. exports of other manufacturing technology rose 11% to $101.1 million from September to October. Exports of machine tool parts and accessories rose 9% to $63.1 million; exports of laser, light or photon beams for working any material rose 141% to $5.0 million; exports of injection molding machinery rose 27% to $4.9 million; and exports of industrial process control instruments rose 17% to $5.1 million (the highest monthly total of 1989). Canada is the year-to-date leader in U.S. exports of other manufacturing technology through October at $160.9 million, followed by the United Kingdom ($110.7 million), Japan ($105.1 million), Mexico ($86.6 million), West Germany ($85.2 million), and Korea ($67.1 million). In 1989 through October U.S. exports of other manufacturing technology to 22 countries exceeded $10 million.

Imports

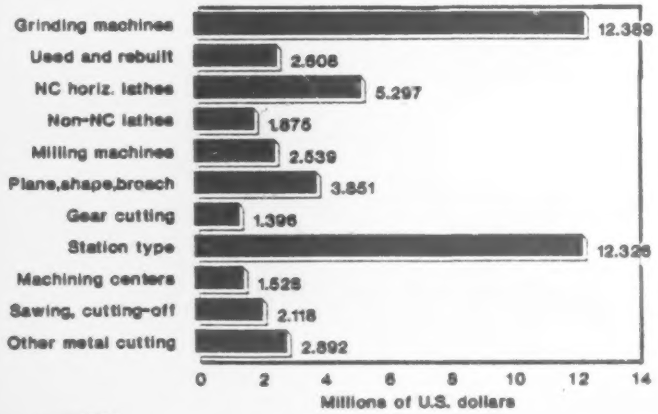
U.S. imports of other manufacturing technology jumped 39% in October over September to $111.5 million, the first time imports exceeded exports in this category since July. Large gains were recorded in imports of machine tool parts and accessories (up 35% to $49.1 million), injection molding machinery (up 63% to $24.7 million), industrial robots and parts (up 85% to $22.7 million) and numerical controls for controlling machine tools (up 70% to $5.4 million). Imports of other manufacturing technology from Japan increased 52% in October compared with September to $53.4 million, including more than a seven-fold increase in industrial robot parts to $8.2 million.

MONTHLY FOCUS

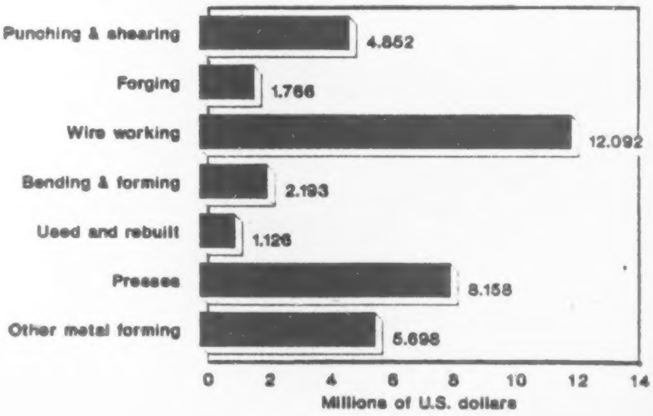
U.S. Machine Tool Exports to the United Kingdom

U.S. machine tool exports to the United Kingdom in 1989 through October totalled $84.7 million – a record for U.S. exports to the U.K., with two months still unrecorded. The United Kingdom is the fourth largest export market for U.S. machine tools so far in 1989. The U.S has also exported $110.7 million in other manufacturing technology to the United Kingdom so far in 1989, making the United Kingdom the second largest export market in that category. Of the U.K. machine tool total, 58% ($48.8 million) is metal cutting and 42% ($35.9 million) is metal forming machines.

U.S. Metal Cutting Exports to the U.K.
January - October 1989



U.S. Metal Forming Exports to the U.K.
January - October 1989



Source: NMTBA

1989 EXPORTS

METAL CUTTING

COUNTRY	OCTOBER	SEPTEMBER	% CHANGE	OCT YTD '89	OCT YTD '88	% CHANGE
Canada	$6,674,738	$9,277,733	-28.06%	$55,151,307	$53,556,000	2.98%
Mexico	5,615,160	6,022,780	-6.77	55,026,254	73,462,000	-25.10
U.K.	11,780,815	2,108,825	458.64	48,819,004	24,848,000	96.47
Korea	1,355,174	5,223,822	-74.06	34,558,262	32,486,000	6.38
Japan	2,049,195	3,235,005	-36.66	26,400,307	21,454,000	23.06
West Germany	2,557,946	1,508,365	69.58	25,765,205	13,956,000	84.62
China	1,689,308	3,456,775	-51.13	23,950,949	19,430,000	23.27
Italy	909,624	805,071	12.99	11,768,594	9,942,000	18.37
India	2,190,504	412,697	430.78	10,629,190	6,057,000	75.49
France	557,296	459,126	21.38	10,537,720	7,308,000	44.19
Brazil	1,518,383	972,740	56.09	9,132,011	5,527,000	65.23
USSR	2,496,395	5,259,085	-52.53	8,975,415	1,155,000	677.09
Australia	446,408	761,450	-41.37	8,632,504	3,080,000	180.28
Taiwan	553,057	1,516,547	-63.53	7,[illegible]9,779	10,359,000	-25.48
Singapore	830,367	442,947	87.46	7,[illegible],146	5,549,000	29.41
Belgium	700,918	362,106	93.57	6,[illegible],180	4,800,000	31.02
Venezuela	295,655	437,784	-32.47	[illegible],868	12,136,000	-55.43
Indonesia	33,555	322,198	-89.59	4,129,863	337,000	1,125.48
Netherlands	35,814	98,240	-63.54	3,559,887	2,520,000	41.27
Switzerland	328,849	256,043	28.44	3,339,228	2,269,000	47.17
Spain	190,163	34,000	459.30	2,997,275	1,813,000	65.32
Thailand	267,230	0	NA	2,143,259	754,000	184.25
Austria	266,000	4,259	6,145.60	1,253,499	804,000	55.91
Malaysia	63,445	202,860	-68.72	990,120	441,000	124.52

METAL FORMING

COUNTRY	OCTOBER	SEPTEMBER	% CHANGE	OCT YTD '89	OCT YTD '88	% CHANGE
Korea	$1,836,259	$6,311,788	-70.91%	$52,353,396	$19,078,000	174.42%
Japan	2,936,546	1,521,113	93.05	39,831,966	30,165,000	32.05
Canada	3,332,428	4,629,917	-28.02	36,559,038	40,877,000	-10.56
U.K.	862,609	941,620	-8.39	35,884,018	15,146,000	136.92
Mexico	2,925,881	2,392,609	22.29	35,067,784	29,375,000	19.38
West Germany	2,184,358	2,728,028	-19.93	22,196,408	20,014,000	10.90
Taiwan	2,239,126	3,184,842	-29.69	17,293,017	9,096,000	90.12
China	1,177,784	892,412	31.98	10,092,651	7,429,000	35.85
India	1,036,757	995,571	4.14	8,596,867	2,073,000	314.71
Venezuela	148,930	200,199	-25.61	7,834,948	8,136,000	-3.70
France	1,615,068	491,221	228.79	7,447,424	7,932,000	-6.11
Italy	510,807	324,232	57.54	7,218,406	6,540,000	10.37
Singapore	417,831	35,215	1,086.51	7,062,393	1,705,000	314.22
Brazil	728,734	475,631	53.21	6,537,473	9,439,000	-30.74
Australia	820,393	433,577	89.22	6,290,285	7,116,000	-11.60
Netherlands	500,142	98,332	408.63	6,249,903	3,225,000	93.80
Spain	74,950	442,689	-83.07	3,768,141	5,036,000	-25.18
Thailand	136,124	85,505	59.20	3,456,071	3,103,000	11.38
Belgium	3,673	73,665	-95.01	2,389,073	1,212,000	97.12
Malaysia	119,061	38,131	212.24	1,497,528	2,853,000	-47.51
Switzerland	122,766	33,981	261.28	1,336,853	1,540,000	-13.19
USSR	0	868,799	-100.00	976,510	52,000	1,777.90
Austria	19,480	0	NA	681,490	401,000	69.95
Indonesia	15,009	0	NA	167,461	491,000	-65.89

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	OCTOBER	SEPTEMBER	% CHANGE	OCT YTD '89	OCT YTD '88	% CHANGE
Canada	$10,007,166	$13,907,650	-28.05%	$91,710,345	$ 94,433,000	-2.88%
Mexico	8,541,041	8,415,389	1.49	90,094,038	102,837,000	-12.39
Korea	3,191,433	11,535,610	-72.33	86,911,658	51,564,000	68.55
U.K.	12,643,424	3,050,445	314.48	84,703,022	39,994,000	111.79
Japan	4,985,741	4,756,118	4.83	66,232,273	51,619,000	28.31
West Germany	4,742,304	4,23[illegible]93	11.94	47,961,613	33,970,000	41.19
China	2,867,092	4,349,[illegible]87	-34.08	34,043,600	26,859,000	26.75
Taiwan	2,792,183	4,701,389	-40.61	25,012,796	19,455,000	28.57
India	3,227,261	1,408,268	129.17	19,226,057	8,130,000	136.48
Italy	1,420,431	1,129,303	25.78	18,987,000	16,482,000	15.20
France	2,172,364	950,347	128.59	17,985,144	15,240,000	18.01
Brazil	2,247,117	1,448,371	55.15	15,669,484	14,966,000	4.70
Australia	1,266,801	1,195,027	6.01	14,922,789	10,196,000	46.36
Singapore	1,248,198	478,162	161.04	14,243,539	7,254,000	96.35
Venezuela	444,585	637,983	-30.31	13,243,816	20,272,000	-34.67
USSR	2,496,395	6,127,884	-59.26	9,951,925	1,207,000	724.52
Netherlands	535,956	196,572	172.65	9,809,790	5,745,000	70.75
Belgium	704,591	435,771	61.69	8,678,253	6,012,000	44.35
Spain	265,113	476,689	-44.38	6,765,416	6,849,000	-1.22
Thailand	403,354	85,505	371.73	5,599,330	3,857,000	45.17
Switzerland	451,615	290,024	55.72	4,676,081	3,809,000	22.76
Indonesia	48,564	322,198	-84.93	4,297,324	828,000	419.00
Malaysia	182,506	240,991	-24.27	2,487,648	3,294,000	-24.48
Austria	285,480	4,259	6,602.98	1,934,989	1,205,000	60.58

1989 IMPORTS

METAL CUTTING

COUNTRY	OCTOBER	SEPTEMBER	% CHANGE	OCT YTD '89	OCT YTD '88	% CHANGE
Japan	$71,760,071	$79,599,610	-9.85%	$901,849,661	$691,539,000	30.41%
West Germany	24,514,486	18,355,502	33.55	224,625,602	184,385,000	21.82
Taiwan	16,993,821	10,586,832	60.52	111,458,031	107,870,000	3.33
Switzerland	8,425,949	6,368,836	32.30	71,965,311	59,470,000	21.01
U.K.	8,013,836	7,152,726	12.04	63,337,947	67,335,000	-5.94
Italy	2,545,888	2,935,664	-13.28	43,181,219	35,742,000	20.81
Korea	2,747,897	2,069,550	32.78	21,669,137	10,733,000	101.89
France	924,962	452,148	104.57	18,891,931	8,698,000	117.20
Canada	1,425,421	2,013,657	-29.21	17,110,238	15,773,000	8.48
Spain	934,209	959,022	-2.59	15,697,302	15,459,000	1.54
Singapore	2,404,109	1,519,273	58.24	14,290,650	8,839,000	61.68
Sweden	1,084,484	2,107,118	-48.53	10,879,218	7,752,000	40.34
Brazil	805,326	941,028	-14.42	5,915,178	4,988,000	18.59
Belgium	11,474	2,372	383.73	4,512,154	1,675,000	169.38

METAL FORMING

COUNTRY	OCTOBER	SEPTEMBER	% CHANGE	OCT YTD '89	OCT YTD '88	% CHANGE
Japan	$12,435,306	$17,729,357	-29.86%	$252,667,813	$213,418,000	18.39%
West Germany	6,151,745	5,165,547	19.09	58,239,351	42,493,000	37.06
Canada	3,205,269	3,988,541	-19.64	42,114,629	33,393,000	26.12
Italy	3,252,233	2,365,328	37.50	22,750,665	25,804,000	-11.83
Belgium	2,680,711	1,109,552	141.60	19,526,102	12,158,000	60.60
Switzerland	2,340,800	1,220,948	91.72	14,226,925	16,119,000	-11.74
U.K.	1,926,210	861,213	123.66	12,496,062	13,390,000	-6.68
Taiwan	641,636	801,398	-19.94	7,345,382	5,731,000	28.17
Sweden	434,874	627,947	-30.75	7,019,016	9,722,000	-27.80
Brazil	0	9,261	-100.00	4,517,850	17,177,000	-73.70
Spain	371,856	106,478	249.23	2,415,601	2,772,000	-12.86
France	171,561	139,928	22.61	1,481,934	4,098,000	-63.84
Singapore	91,272	2,600	3,410.46	819,834	1,353,000	-39.41
Korea	34,000	120,291	-71.74	328,799	283,000	16.18

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	OCTOBER	SEPTEMBER	% CHANGE	OCT YTD '89	OCT YTD '88	% CHANGE
Japan	$84,195,377	$97,328,967	-13.49%	$1,154,517,474	$904,957,000	27.58%
West Germany	30,666,231	23,521,049	30.38	282,864,953	226,878,000	24.68
Taiwan	17,635,457	11,388,230	54.86	118,803,413	113,601,000	4.58
Switzerland	10,766,749	7,589,784	41.86	86,192,236	75,589,000	14.03
U.K.	9,940,046	8,013,939	24.03	75,834,009	80,725,000	-6.06
Italy	5,798,121	5,300,992	9.38	65,931,884	61,546,000	7.13
Canada	4,630,690	6,002,198	-22.85	59,224,867	49,166,000	20.46
Belgium	2,692,185	1,111,924	142.12	24,038,256	13,833,000	73.77
Korea	2,781,897	2,189,841	27.04	21,997,936	11,016,000	99.69
France	1,096,523	592,076	85.20	20,373,865	12,796,000	59.22
Spain	1,306,065	1,065,500	22.58	18,112,903	18,231,000	-0.65
Sweden	1,519,358	2,735,065	-44.45	17,898,234	17,474,000	2.43
Singapore	2,495,381	1,521,873	63.97	15,110,484	10,192,000	48.26
Brazil	805,326	950,289	-15.25	10,433,028	22,165,000	-52.93

U.S. IMPORTS
Metal Cutting Machine Tools - October 89

RELEASED: January 3, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC	593	49369	45	3751
301030	Traveling wire electro-discharge machines, non-NC	231	15400	19	1036
301050	Electro-discharge machines, n.e.c., NC	142	8050	7	862
301070	Electro-discharge machines, n.e.c., non-NC	305	10965	39	980
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	2015	163811	243	19701
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	189	26800	22	4586
100035	Horiz. mach. ctrs., ATC	711	116213	114	12684
100045	Mach. ctrs., n.e.c.	250	38122	12	4274
200010	Unit construction mach. (single station transfer), NC	19	3356	0	0
200090	Unit construction mach. (single station transfer), non-NC	15	777	0	0
300010	Multi-station transfer machines, NC	26	19994	1	71
300090	Multi-station transfer machines, non-NC	101	26861	4	1903
8458110010	Horiz. lathes, multiple spindle, NC	301	45676	35	4265
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2642	196780	239	18859
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	540	70103	53	6021
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	77	11729	10	1697
190030	Horiz. engine or toolroom lathes, non-NC	2496	24046	289	2895
190050	Automatic bar and/or chucking mach., single spindle, non-NC	409	11265	85	702
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	87	5363	11	1423
190090	Horiz. lathes, n.e.c., non-NC	828	11126	88	1080
911060	Vertical turret lathes, multiple spindle, NC	23	8404	1	189
911080	Vertical turret lathes, n.e.c., NC	40	5185	2	499
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	682	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	62	5903	4	311
991050	Vertical turret lathes, non-NC	57	3127	1	10
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	670	18523	85	2279
8459100000	Way-type unit head machines	11	827	3	286
210080	Other drilling machines, NC	492	33325	131	3088
290040	Drilling machines, multiple spindle, non-NC	107	5614	19	70
290050	Drilling machines, radial, non-NC	379	2334	15	98
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	187	1468	2	16
290090	Drilling machines, n.e.c., non-NC	422	23610	6	89
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	15	3639	4	665
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	140	14332	9	2212
310070	Boring-milling mach., n.e.c., NC	54	3127	4	252
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	36	1473	5	442
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	156	5505	7	265
400040	Boring machines, vertical, NC	15	6228	0	0
400050	Boring machines, vertical, non-NC	55	696	16	171
400070	Boring machines, n.e.c., NC	10	2459	0	0
400080	Boring machines, n.e.c., non-NC	212	12890	4	81
510080	Milling machines, knee type, NC	993	13913	31	374
590030	Milling machines, knee type, non-NC	2977	26633	396	2499
610080	Milling machines, excl. knee type, n.e.c., NC	432	38888	91	4876
690050	Milling machines, profile, dup., or die sinking, non-NC	81	741	28	130
690070	Milling machines, bed type, non-NC	90	2609	8	136
690090	Milling machines, n.e.c., non-NC	516	16068	58	3217
700020	Threading or tapping machines, n.e.c., NC	239	12724	17	877
700080	Threading or tapping machines, n.e.c., non-NC	256	8391	29	237
8460110080	Flat surface grinding mach., NC	139	10446	4	130
190010	Flat surface grinding mach., recip.-table type, non-NC	920	10561	88	1361
190050	Flat surface grinding mach., n.e.c., non-NC	1507	16779	153	1271
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	470	79652	47	4853
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	324	12242	23	1380
290030	Grinding mach., internal cylindrical, non-NC	130	11839	9	1309
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	1056	40165	64	3679
310080	Sharpening machines (tool & cutter grinding), NC	309	3579	54	528
390050	Sharpening machines (tool & cutter grinding), non-NC	568	7766	64	974
400060	Honing or lapping machines, NC	32	6223	1	23
400080	Honing or lapping machines, non-NC	155	5206	31	1079
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	46	4436	2	58
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1097	29057	98	2457
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	6	109	2	24
200010	Shaping or slotting machines, NC	31	2381	0	0
200090	Shaping or slotting machines, non-NC	46	2462	1	185
300060	Broaching machines, NC	12	4425	2	2108
300080	Broaching machines, non-NC	43	4021	0	0
401050	Gear hobbers	90	15470	5	683
401070	Gear shapers	11	1648	1	347
401090	Gear cutting machines, n.e.c.	348	957	67	8
405060	Gear grinding or finishing machines	156	16487	1	68
500050	Sawing or cutting-off machines, NC	124	2918	23	396
500090	Sawing or cutting-off machines, non-NC	1547	20942	148	2276
9000000001	Metal cutting machine tools, n.e.c.	564	13507	41	808
9800000001	Used or rebuilt machine tools	6105	34684	676	1665
9900000001	Machine tools valued at less than $2,500	596203	81391	92409	9706
	Cutting Total			96306	147537
	Y-T-D Cutting Total	632745	1574479		
	NC Y-T-D Cutting Total	11232	1015324		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - October 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301030	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	3	25	1	1	0	0	0	0
8457100015	0	0	0	0	0	0	1	59	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	1	182	0	0	0	0
110030	0	0	1	150	0	0	0	0	0	0
110050	0	0	0	0	0	0	4	280	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	22	212	2	10	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	52	270	1	316	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	17	90	2	10	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	100	377	0	0	0	0
290040	0	0	0	0	0	0	0	0	9	31
290050	0	0	6	56	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	46
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	16	171
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	2	35	0	0	1	9
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	9	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	1	8	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	7	79
190050	0	0	0	0	1	2	0	0	0	0
210080	0	0	0	0	1	10	0	0	1	2
290010	0	0	0	0	4	9	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	408
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	5	14	0	0	1	10
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	1	4	0	0	0	0
900080	0	0	0	0	2	31	0	0	12	829
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	1	131
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	2	12
500090	0	0	0	0	15	276	2	92	31	316
9000000001	0	0	0	0	1	6	15	448	1	5
9800000001	1	7	0	0	98	77	2	13	3	28
9900000001	2	5	1	2	123	57	41	25	2379	470
Month Tot	3	11	102	805	361	1425	66	925	2467	2546
Y-T-D Tot	329	4512	859	5915	3207	17110	1378	18892	28804	43181
NC YTD Tot	11	383	36	924	120	3799	48	2542	130	12671

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - October 89

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	41	3297	0	0	0	0	0	0	0	0
301030	4	248	0	0	0	0	0	0	0	0
301050	7	862	0	0	0	0	0	0	0	0
301070	1	121	0	0	0	0	0	0	0	0
8457100015	148	12994	1	71	21	1222	0	0	0	0
100025	18	4209	0	0	0	0	0	0	0	0
100035	89	10364	0	0	0	0	0	0	0	0
100045	1	564	0	0	0	0	0	0	1	231
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	19	2326	0	0	0	0	0	0	0	0
110030	196	15744	3	161	0	0	0	0	0	0
110050	43	5268	0	0	0	0	0	0	0	0
110090	3	680	2	204	0	0	0	0	1	271
190030	3	97	18	169	27	300	0	0	0	0
190050	1	29	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	150	0	0	0	0	0	0	0	0
911060	1	189	0	0	0	0	0	0	0	0
911080	2	499	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	4	311	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	2	21	25	1589	0	0	0	0	0	0
8459100000	0	0	2	186	0	0	0	0	0	0
210080	28	1500	1	4	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	1	12	0	0	0	0	0	0	0	0
290090	2	29	0	0	0	0	0	0	0	0
310010	1	310	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	1	224	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	3	192	2	16	0	0	124	934	2	49
610080	3	571	0	0	4	145	0	0	0	0
690050	1	7	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	8	48	0	0	0	0	0	0	0	0
700020	17	877	0	0	0	0	0	0	0	0
700080	23	131	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	18	143	0	0	51	737	0	0	0	0
190050	7	84	0	0	0	0	0	0	0	0
210080	18	2474	0	0	0	0	0	0	0	0
290010	1	95	0	0	0	0	0	0	2	265
290030	0	0	0	0	0	0	0	0	0	0
290050	19	2313	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	9	154	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	3	184	0	0	0	0	0	0	0	0
900060	1	54	0	0	0	0	0	0	0	0
900080	35	1059	17	106	0	0	0	0	1	8
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	2	24
200010	0	0	0	0	0	0	0	0	0	0
200090	1	185	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	1	173	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	18	292	0	0	0	0	0	0	0	0
500090	23	740	0	0	0	0	0	0	4	25
9000000001	9	237	0	0	0	0	0	0	1	23
9800000001	17	726	0	0	0	0	0	0	3	4
9900000001	6833	972	240	241	0	0	0	0	226	184
Month Tot	7685	71760	311	2748	103	2404	124	934	243	1084
Y-T-D Tot	55525	901850	5422	21669	721	14291	1719	15697	2312	10879
NC YTD Tot	7176	759557	137	8460	157	7782	501	5095	10	2031

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - October 89

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	4	454	0	0	0	0	0	0	0	0
301030	7	721	8	67	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	9	406	18	264	0	0	2	81	5	82
8457100015	0	0	18	1544	31	1709	7	1388	16	715
100025	0	0	4	377	0	0	0	0	0	0
100035	0	0	1	102	1	132	23	2086	0	0
100045	0	0	2	111	0	0	7	3355	1	13
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	1	71
300090	1	143	0	0	0	0	3	1760	0	0
8458110010	0	0	2	110	0	0	13	1647	0	0
110030	5	443	31	1613	2	684	0	0	1	64
110050	0	0	4	231	2	242	0	0	0	0
110090	0	0	0	0	0	0	4	542	0	0
190030	0	0	159	1274	13	107	0	0	45	725
190050	0	0	84	673	0	0	0	0	0	0
190070	9	1410	2	13	0	0	0	0	0	0
190090	0	0	0	0	12	180	2	13	20	151
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	10
995090	0	0	0	0	8	223	0	0	31	346
8459100000	0	0	0	0	1	100	0	0	0	0
210080	2	1207	0	0	0	0	0	0	0	0
290040	0	0	10	39	0	0	0	0	0	0
290050	0	0	8	37	1	5	0	0	0	0
290070	0	0	0	0	1	4	0	0	0	0
290090	0	0	0	0	3	47	0	0	1	13
310010	0	0	2	44	1	311	0	0	0	0
310040	2	931	0	0	2	588	2	398	3	295
310070	0	0	0	0	0	0	3	243	1	10
390040	0	0	0	0	0	0	4	218	0	0
390050	0	0	0	0	0	0	5	136	1	83
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	38
510080	0	0	28	255	2	71	0	0	1	48
590030	0	0	174	861	40	159	1	21	50	267
610080	0	0	46	896	0	0	6	3108	32	156
690050	0	0	24	110	0	0	3	13	0	0
690070	0	0	8	136	0	0	0	0	0	0
690090	0	0	20	112	1	9	2	2955	26	84
700020	0	0	0	0	0	0	0	0	0	0
700080	1	29	0	0	3	24	1	46	0	0
8460110080	0	0	1	35	3	95	0	0	0	0
190010	0	0	7	39	0	0	2	337	3	25
190050	2	71	129	786	8	215	0	0	6	114
210080	6	620	2	120	0	0	19	1628	0	0
290010	9	763	0	0	4	158	2	55	1	35
290030	6	524	0	0	0	0	3	785	0	0
290050	5	401	4	93	7	178	25	206	2	79
310080	4	26	43	289	4	9	2	123	1	82
390050	6	207	3	30	16	144	21	392	3	24
400060	1	23	0	0	0	0	0	0	0	0
400080	0	0	0	0	13	63	12	804	3	28
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	10	30	8	217	13	177
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	1	1977	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	4	510	0	0
401070	0	0	0	0	0	0	1	347	0	0
401090	62	6	0	0	5	2	0	0	0	0
405060	0	0	0	0	0	0	0	0	1	68
500050	0	0	0	0	2	12	1	80	0	0
500090	3	26	23	114	0	0	24	623	23	63
9000000001	0	0	0	0	0	0	0	0	14	90
9800000001	0	0	472	165	63	363	6	115	11	168
9900000001	20	15	60853	6455	366	174	704	281	20621	824
Month Tot	164	8426	62190	16994	626	8014	922	24514	20939	4945
Y-T-D Tot	1509	71965	404629	111458	6441	63338	9755	224626	110135	49095
NC YTD Tot	190	26956	1005	25394	600	29626	768	119890	343	10214

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 89

RELEASED: January 3, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	3870	36481	1134	1918
8462100030	Headers and upsetters, including cold headers	127	10647	51	2921
100050	Forging or die stamping machines, and hammers, n.e.c.	1282	62473	169	3160
210080	Bending, folding, straight. or flat. mach., incl presses, NC	871	29633	39	2085
290030	Press brakes, non-NC	310	8392	27	869
290040	Bending rolls, non-NC	72	1901	6	192
290050	Bending, folding, straight., or flat., n.e.c., non-NC	930	37330	96	3524
310080	Shearing machines, NC	45	5229	5	203
390050	Shearing machines, non-NC	647	12734	82	1520
410080	Punching or notching mach., incl. comb. punch & shear, NC	313	34373	21	2904
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	518	11642	70	943
910060	Hydraulic presses, NC	30	3589	2	192
910090	Hydraulic presses, non-NC	480	21340	86	849
990030	Presses, n.e.c., NC	91	6117	51	1172
990040	Presses, mechanical, non-NC	66	23337	0	0
990060	Presses, n.e.c., non-NC	933	74661	66	5154
8463100080	Draw benches for bars, tubes, profiles, wire or the like	39	5009	2	48
200080	Thread rolling machines	53	2815	11	406
300080	Machines for working wire	589	28166	75	2492
900080	Metal forming machine tools, n.e.c.	689	25500	100	2980
9800000002	Used or rebuilt machine tools	851	14861	150	2196
9900000002	Machine tools valued at less than $2,500	19554	5902	2287	573

	UNITS	$000	UNITS	$000
Forming Total			4530	36302
Y-T-D Forming Total	32360	462134		
NC Y-T-D Forming Total	1350	78941		
Cutting and Forming Totals:				
Monthly Total			100836	183839
Y-T-D Total	665105	2036613		
NC Y-T-D Total	12582	1094266		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	504799	0	49138
2710003070	Quenching or cutting oils	0	72	0	7
8428900010	Industrial robots for lifting, handling, loading or unload	1667	36620	151	3210
8456101010	Laser, light or photon beam for working metal, NC	97	13382	17	2338
101020	Laser, light or photon beam for working metal, non-NC	38	3545	4	593
105000	Laser, light or photon beam for other materials	1761	4490	604	371
201010	Ultrasonic processes for working metal, NC	6	952	0	0
201050	Ultrasonic processes for working metal, non-NC	12	29	0	0
205000	Ultrasonic processes for working other materials	139	633	5	182
8477106010	Injection molding mach., for rubber or oth. thermosetting	821	75875	86	6727
106050	Injection molding mach., for thermoplastics	2227	219388	238	18005
200010	Extruders for rubber or other thermosetting materials	177	19105	14	679
200050	Extruders for processing thermoplastics	598	33910	47	2296
300000	Blow molding machines	240	36133	13	848
400000	Vacuum-molding and other thermoforming machines	251	14690	28	234
8479899040	Industrial robots, n.e.c.	21811	110782	8352	7882
908040	Industrial robot parts	0	38033	0	11598
8537100030	Numerical controls for controlling machine tools	11325	42931	1670	5385
9024100000	Machines and appliances for testing metals	0	11335	0	565
9031100000	Machines for balancing mechanical parts	0	8175	0	554
300000	Profile projectors	0	4221	0	403
9032810020	Industrial process control instr., hydraulic	168667	2316	9942	143
810060	Industrial process control instr., pneumatic	98723	2581	10945	304

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 89

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	7	354	0	0	40	304
8462100030	4	2010	0	0	0	0	0	0	0	0
100050	0	0	0	0	42	354	0	0	3	11
210080	0	0	0	0	1	17	0	0	1	446
290030	7	322	0	0	13	376	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	103	0	0	39	451	0	0	7	267
310080	2	63	0	0	1	60	0	0	0	0
390050	7	107	0	0	12	138	3	8	6	768
410080	0	0	0	0	0	0	0	0	2	582
490050	0	0	0	0	1	83	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	6	536	0	0	0	0
990030	0	0	0	0	0	0	0	0	46	332
990040	0	0	0	0	0	0	0	0	0	0
990060	1	8	0	0	20	495	0	0	3	64
8463100080	0	0	0	0	0	0	1	45	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	7	397
900080	0	0	0	0	2	99	0	0	7	68
9800000002	5	68	0	0	30	219	3	118	0	0
9900000002	1	1	0	0	38	25	0	0	16	13
Month Tot	29	2681	0	0	212	3205	7	172	138	3252
Y-T-D Tot	460	19526	250	4518	3984	42115	123	1482	1036	22751
NC YTD Tot	42	1544	0	0	20	1056	10	235	60	2282
C&F Month	32	2692	102	805	573	4631	73	1097	2605	5798
C&F Y-T-D	789	24038	1109	10433	7191	59225	1501	20374	29840	65932
C&F NC YTD	53	1928	36	924	140	4855	58	2777	190	14953

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	88	0	108	0	3602	0	811	0	2051
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	0	0	4	61	0	0	0	0
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	5	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	5	269	5	772	0	0
106050	0	0	0	0	33	3763	0	0	13	974
200010	0	0	0	0	3	26	3	164	1	32
200050	0	0	0	0	1	14	0	0	0	0
300000	0	0	0	0	0	0	0	0	1	111
400000	0	0	0	0	2	111	0	0	0	0
8479899040	0	0	0	0	0	0	0	0	1	23
908040	0	0	0	0	0	82	0	15	0	98
8537100030	0	0	0	0	0	0	0	0	0	0
9024100000	0	0	0	0	0	38	0	4	0	0
9031100000	0	0	0	0	0	0	0	0	0	9
300000	0	0	0	0	0	0	0	0	0	6
9032810020	0	0	0	0	0	0	10	60	0	0
810060	0	0	0	0	2614	134	1090	11	1554	11

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 89

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	31	161	0	0	0	0	0	0	0	0
8462100030	43	902	0	0	0	0	0	0	0	0
100050	37	1614	0	0	0	0	0	0	0	0
210080	28	1488	0	0	0	0	0	0	0	0
290030	6	166	0	0	0	0	0	0	0	0
290040	1	146	0	0	0	0	0	0	3	19
290050	14	2097	2	16	0	0	0	0	13	200
310080	0	0	0	0	0	0	0	0	0	0
390050	4	105	2	18	8	91	0	0	3	26
410080	6	602	0	0	0	0	0	0	0	0
490050	9	137	0	0	0	0	34	348	4	150
910060	0	0	0	0	0	0	0	0	0	0
910090	4	90	0	0	0	0	0	0	0	0
990030	2	66	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	12	2396	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	6	210	0	0	0	0	0	0	0	0
300080	45	516	0	0	0	0	0	0	0	0
900080	42	1410	0	0	0	0	0	0	1	4
9800000002	1	270	0	0	0	0	0	0	0	0
9900000002	53	58	0	0	0	0	41	24	87	34
Month Tot	344	12435	4	34	8	91	75	372	111	435
Y-T-D Tot	4657	252668	70	329	62	820	555	2416	377	7019
NC YTD Tot	838	44008	0	0	0	0	1	50	6	492
C&F Month	8029	84195	315	2782	111	2495	199	1306	354	1519
C&F Y-T-D	60182	1154517	5492	21998	783	15110	2274	18113	2689	17898
C&F NC YTD	8014	803565	137	8460	157	7782	502	5145	16	2523

Other Manufacturing Technology

1000000000	0	16322	0	239	0	709	0	97	0	720
2710003070	0	3	0	0	0	0	0	0	0	0
8428900010	81	792	0	0	0	0	0	0	18	711
8456101010	10	2084	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	180	0	0	0	0
105000	330	36	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	2	2	0	0	0	0
8477106010	50	4181	2	273	0	0	0	0	0	0
106050	69	8442	0	0	0	0	0	0	0	0
200010	2	47	0	0	0	0	0	0	0	0
200050	2	284	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	10	735	0	0
400000	0	0	0	0	0	0	0	0	0	0
8479899040	8314	6804	0	0	0	0	0	0	12	407
908040	0	8248	0	0	0	0	0	0	0	66
8537100030	1666	5354	0	0	0	0	0	0	0	0
9024100000	0	221	0	0	0	0	0	0	0	3
9031100000	0	432	0	0	0	0	0	0	0	10
300000	0	154	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	0	0	0	0	0	0	0	0	380	79

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 89

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	316	1	22	0	0	15	295	1039	467
8462100030	0	0	4	9	0	0	0	0	0	0
100050	0	0	2	9	13	115	4	725	68	330
210080	0	0	0	0	3	11	4	70	2	53
290030	0	0	0	0	0	0	0	0	1	6
290040	0	0	0	0	0	0	0	0	2	26
290050	1	100	1	18	1	27	3	75	13	170
310080	0	0	0	0	0	0	2	80	0	0
390050	0	0	5	16	21	125	7	68	4	48
410080	3	652	0	0	0	0	10	1068	0	0
490050	1	6	9	24	4	59	8	136	0	0
910060	0	0	0	0	0	0	2	192	0	0
910090	0	0	71	101	2	65	3	57	0	0
990030	0	0	0	0	0	0	2	769	1	4
990040	0	0	0	0	0	0	0	0	0	0
990060	1	479	1	22	0	0	14	1284	14	407
8463100080	0	0	0	0	0	0	1	3	0	0
200080	0	0	1	4	0	0	4	192	0	0
300080	1	306	3	51	3	504	15	708	1	11
900080	3	405	1	47	6	42	10	104	28	801
9800000002	58	61	12	55	11	972	4	311	26	123
9900000002	199	17	1535	262	204	6	23	14	90	119
Month Tot	268	2341	1646	642	268	1926	131	6152	1289	2565
Y-T-D Tot	1621	14227	8729	7345	950	12496	1428	58239	8058	16184
NC YTD Tot	31	4632	23	565	9	482	227	18315	83	5280
C&F Month	432	10767	63836	17635	894	9940	1053	30666	22228	7509
C&F Y-T-D	3130	86192	413358	118803	7391	75834	11183	282865	118193	65280
C&F NC YTD	221	31587	1028	25959	609	30108	995	138205	426	15494

Other Manufacturing Technology

1000000000	0	3257	0	3299	0	3477	0	12075	0	2283
2710003070	0	2	0	0	0	0	0	2	0	0
8428900010	1	171	0	0	16	888	29	395	2	192
8456101010	0	0	0	0	5	71	0	0	2	182
101020	0	0	0	0	0	0	2	408	0	0
105000	0	0	0	0	0	0	261	8	13	327
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	2	80	0	0	1	100	0	0	0	0
8477106010	0	0	2	117	2	21	17	856	3	238
106050	4	1015	16	738	5	178	82	2181	16	715
200010	1	144	0	0	0	0	4	266	0	0
200050	0	0	1	5	10	312	32	1670	1	11
300000	0	0	2	3	0	0	0	0	0	0
400000	0	0	0	0	0	0	26	122	0	0
8479899040	0	0	0	0	13	65	5	111	7	473
908040	0	276	0	0	0	264	0	1329	0	1220
8537100030	3	28	0	0	0	0	0	0	1	2
9024100000	0	7	0	0	0	114	0	44	0	135
9031100000	0	16	0	0	0	2	0	33	0	53
300000	0	67	0	0	0	107	0	35	0	33
9032810020	126	6	0	0	0	0	1	4	9805	74
810060	28	1	5259	53	7	6	13	9	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
October 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	185	618	34	914	219	1532
Bulgaria	0	0	0	0	0	0
Czechoslovakia	6	161	0	0	6	161
Denmark	29	109	2	114	31	223
East Germany	150	196	0	0	150	196
Finland	0	0	28	402	28	402
Hungary	0	0	0	0	0	0
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	32	249	17	151	49	401
Norway	0	0	3	161	3	161
Poland	23	583	0	0	23	583
Portugal	0	0	3	46	3	46
Romania	0	0	0	0	0	0
USSR	0	0	0	0	0	0
Yugoslavia	38	407	0	0	38	407
Oth Europe	14	474	61	119	75	594
TOTAL	5092	49254	1175	19237	6267	68491
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	1	4	1	4
Mexico	0	0	78	206	78	206
Oth N & C Am.	10	5	10	44	20	49
TOTAL	371	1430	301	3459	672	4890
SOUTH AMERICA						
Argentina	7	34	0	0	7	34
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	1	8	0	0	1	8
Oth South Am.	0	0	0	0	0	0
TOTAL	110	847	0	0	110	847
OCEANIA						
Australia	22	187	10	34	32	221
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	22	187	10	34	32	221

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
October 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	20393	1291	4	89	20397	1380
Hong Kong	7	157	8	70	15	227
India	17	198	4	4	21	202
Indonesia	1	3	0	0	1	3
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	4	262	1026	207	1030	470
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	90711	95818	3044	13572	93755	109390
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. – Not elsewhere classified.

U.S. EXPORTS
Metal Cutting Machine Tools - October 89

RELEASED: January 3, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	329	4334	11	797
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	23	3633	1	164
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	8	1256	3	302
100035	Horiz. mach. ctrs., ATC	41	16580	1	209
100045	Mach. ctrs., n.e.c.	235	15391	43	1904
200010	Unit construction mach. (single station transfer), NC	3	2683	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	4268	0	0
300010	Multi-station transfer machines, NC	7	10287	2	5009
300090	Multi-station transfer machines, non-NC	16	3400	0	0
8458110010	Horiz. lathes, multiple spindle, NC	3	534	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	158	13128	25	2093
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	43	7952	4	978
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	8	1767	0	0
190030	Horiz. engine or toolroom lathes, non-NC	83	1923	8	140
190050	Automatic bar and/or chucking mach., single spindle, non-NC	18	89	2	30
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	39	2762	4	216
190090	Horiz. lathes, n.e.c., non-NC	207	2843	20	396
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	5	863	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	539	1	266
915070	Vertical lathes, excl. VTL's, n.e.c., NC	10	993	1	95
991050	Vertical turret lathes, non-NC	20	650	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	59	3112	5	179
8459100000	Way-type unit head machines	17	3318	4	503
210080	Other drilling machines, NC	95	7168	15	1067
290040	Drilling machines, multiple spindle, non-NC	19	1120	0	0
290050	Drilling machines, radial, non-NC	25	963	1	41
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	68	953	0	0
290090	Drilling machines, n.e.c., non-NC	420	5384	322	1454
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	1799	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	642	1	84
310070	Boring-milling mach., n.e.c., NC	29	2330	1	170
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	30	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	100	2012	0	0
400040	Boring machines, vertical, NC	4	1294	0	0
400050	Boring machines, vertical, non-NC	32	1039	2	21
400070	Boring machines, n.e.c., NC	1	1350	0	0
400080	Boring machines, n.e.c., non-NC	40	2519	0	0
510080	Milling machines, knee type, NC	25	1699	1	99
590030	Milling machines, knee type, non-NC	45	2098	7	217
610080	Milling machines, excl. knee type, n.e.c., NC	47	7638	5	2509
690050	Milling machines, profile, dup., or die sinking, non-NC	21	1095	0	0
690070	Milling machines, bed type, non-NC	55	7023	0	0
690090	Milling machines, n.e.c., non-NC	295	6521	29	391
700020	Threading or tapping machines, n.e.c., NC	29	1211	4	80
700080	Threading or tapping machines, n.e.c., non-NC	251	6217	30	379
8460110080	Flat surface grinding mach., NC	129	10132	19	1329
190010	Flat surface grinding mach., recip.-table type, non-NC	125	1678	55	661
190050	Flat surface grinding mach., n.e.c., non-NC	96	8550	2	165
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	312	23904	8	1250
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	40	4556	2	271
290030	Grinding mach., internal cylindrical, non-NC	53	4479	12	628
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	428	19576	34	1646
310080	Sharpening machines (tool & cutter grinding), NC	39	4669	5	806
390050	Sharpening machines (tool & cutter grinding), non-NC	920	9369	130	1877
400060	Honing or lapping machines, NC	2	58	0	0
400080	Honing or lapping machines, non-NC	661	8215	107	1197
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	32	3573	5	878
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	496	11659	86	1313
8461100060	Planing machines, NC	6	3712	0	0
100080	Planing machines, non-NC	150	5468	19	619
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	39	1168	1	32
300060	Broaching machines, NC	3	352	2	104
300080	Broaching machines, non-NC	50	2302	3	183
401050	Gear hobbers	33	4727	0	0
401070	Gear shapers	64	5453	6	1230
401090	Gear cutting machines, n.e.c.	63	14616	7	1354
405060	Gear grinding or finishing machines	48	8563	3	2538
500050	Sawing or cutting-off machines, NC	32	1747	2	64
500090	Sawing or cutting-off machines, non-NC	875	11780	101	1279
9000000001	Metal cutting machine tools, n.e.c.	276	11499	72	1448
9800000001	Used or rebuilt machine tools	5346	44907	342	4164
9900000001	Machine tools valued at less than $2,500	35752	12556	3958	1140
	Cutting Total			5534	45967
	Y-T-D Cutting Total	49021	403680		
	NC Y-T-D Cutting Total*	1407	154611		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - October 89

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	5	367
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	1	87
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	5	558	0	0	3	125
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	1	73	1	81
110050	0	0	0	0	0	0	1	216	1	210
110090	0	0	0	0	0	0	0	0	0	0
190030	1	20	0	0	0	0	0	0	3	67
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	4	31
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	41
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	226	1018
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	11	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	1	99	0	0
590030	2	56	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	100
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	30
700020	0	0	0	0	0	0	0	0	1	16
700080	0	0	0	0	1	109	0	0	15	42
8460110080	0	0	0	0	0	0	0	0	7	766
190010	0	0	0	0	0	0	42	500	2	21
190050	0	0	0	0	0	0	1	107	0	0
210080	0	0	1	266	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	1	244
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	3	754
390050	0	0	0	0	0	0	12	78	18	156
400060	0	0	0	0	0	0	0	0	0	0
400080	6	40	0	0	0	0	0	0	1	7
900060	0	0	0	0	0	0	0	0	1	604
900080	6	24	0	0	0	0	0	0	6	126
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	3	392
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	32
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	1	42
500050	0	0	0	0	0	0	0	0	2	64
500090	0	0	0	0	0	0	8	143	36	436
9000000001	0	0	0	0	8	23	21	248	7	365
9800000001	19	303	0	0	0	0	0	0	18	189
9900000001	5	3	0	0	0	0	92	55	2325	265
Month Tot	39	446	1	266	15	701	179	1518	2695	6675
Y-T-D Tot	747	8633	58	1253	183	6289	520	9132	22300	55151
NC YTD Tot*	13	1264	5	646	36	4036	44	3526	192	20429

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - October 89

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	1	61	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	3	316	1	145	0	0	0	0	0	0
110050	1	175	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	1	17	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	5	22	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	1	185	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	1	115	0	0	0	0	0	0	0	0
190010	0	0	0	0	2	25	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	199	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	124	0	0	0	0	0	0
310080	0	0	1	32	0	0	0	0	0	0
390050	0	0	0	0	2	60	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	74	786	0	0	0	0	2	30	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	13	0	0	1	4	1	35
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	1	1126	0	0	0	0
401090	0	0	0	0	1	625	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	1	9	0	0	0	0
9000000001	1	8	0	0	1	25	0	0	11	256
9800000001	3	90	0	0	16	247	0	0	28	541
9900000001	0	0	186	19	14	13	0	0	304	78
Month Tot	84	1689	197	557	39	2191	3	34	344	910
Y-T-D Tot	556	23951	820	10538	226	10629	101	4130	787	11769
NC YTD Tot*	98	14696	50	6970	6	1719	6	1968	18	1421

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - October 89

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	152	1	34	0	0	1	61	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	1	108	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	38	25	597	0	0	4	267	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	3	277	0	0	0	0	1	90	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	2	21	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	2	146	0	0	0	0	0	0	0	0
190090	2	6	0	0	0	0	8	200	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	95	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	15	0	0
8459100000	0	0	0	0	0	0	4	503	0	0
210080	0	0	0	0	0	0	8	554	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	2	10	9	41	0	0	9	44	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	84	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	10	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	20	0	0
610080	0	0	0	0	0	0	2	392	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	7	163	0	0	20	177	1	22
700020	0	0	0	0	0	0	2	44	0	0
700080	1	110	0	0	0	0	7	96	0	0
8460110080	0	0	0	0	0	0	1	25	0	0
190010	0	0	0	0	0	0	4	41	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	4	289	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	14	0	0
290050	8	291	0	0	0	0	3	103	0	0
310080	1	20	0	0	0	0	0	0	0	0
390050	3	54	9	55	3	19	2	8	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	6	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	10	102	1	266	0	0	8	51	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	11	135	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	3	183	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	5	104	0	0
401090	0	0	0	0	0	0	5	447	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	3	16	2	28	0	0	24	396	0	0
9000000001	1	110	0	0	0	0	10	79	1	7
9800000001	2	38	1	171	18	44	144	1377	3	7
9900000001	171	113	0	0	0	0	238	143	0	0
Month Tot	219	2049	55	1355	21	63	530	5615	5	36
Y-T-D Tot	2891	26400	1545	34558	101	990	6252	55026	411	3560
NC YTD Tot*	132	8708	137	13472	3	135	161	12093	19	1900

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - October 89

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	88	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	2	122	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	2	70
190090	0	0	0	0	3	22	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	2	164	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	67	300	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	1	43	1	138
190010	0	0	0	0	0	0	3	35	0	0
190050	0	0	0	0	0	0	1	58	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	3	130	0	0	0	0
290050	7	250	0	0	0	0	1	191	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	16	7	97	5	53	2	17
900060	0	0	0	0	0	0	0	0	0	0
900080	2	19	2	11	6	66	5	38	4	34
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	14	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	2	104	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	2	21	0	0	0	0	1	17	0	0
9000000001	0	0	0	0	0	0	2	30	0	0
9800000001	0	0	0	0	0	0	0	0	1	8
9900000001	25	15	0	0	0	0	0	0	0	0
Month Tot	107	830	5	190	20	329	20	553	10	267
Y-T-D Tot	768	7181	225	2997	255	3339	596	7720	94	2143
NC YTD Tot*	34	2396	3	841	16	1614	35	2605	19	793

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - October 89

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	34
8457100015	1	164	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	1	107
100035	0	0	0	0	0	0	0	0	1	209
100045	3	196	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	2	5009	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	13	1004	0	0	0	0	1	56	1	52
110050	0	0	0	0	0	0	1	376	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	1	15	0	0
190050	2	30	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	123	0	0	0	0	1	9	1	5
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	1	266	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	3	133	0	0	1	31
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	5	349	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	3	0	0	0	0	0	0	3	15
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	170
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	54	0	0	0	0	1	32	2	54
610080	1	1831	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	1	21
700080	0	0	0	0	0	0	0	0	6	22
8460110080	1	35	0	0	3	100	0	0	4	107
190010	0	0	0	0	0	0	0	0	2	39
190050	0	0	0	0	0	0	0	0	0	0
210080	2	496	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	1	27	0	0
290030	6	431	0	0	0	0	2	53	0	0
290050	0	0	0	0	0	0	13	646	1	41
310080	0	0	0	0	0	0	0	0	0	0
390050	53	1263	0	0	0	0	20	135	8	47
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	6	107	2	40
900060	0	0	0	0	0	0	0	0	4	274
900080	9	183	0	0	3	30	5	55	16	258
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	36	3	42
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	282	0	0
405060	0	0	2	2496	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	13	84	0	0	0	0	1	20	10	109
9000000001	1	160	0	0	0	0	2	22	6	114
9800000001	8	320	0	0	4	30	12	254	65	547
9900000001	106	126	0	0	2	3	105	83	385	223
Month Tot	225	11781	2	2496	15	296	179	2558	525	2561
Y-T-D Tot	2389	48819	34	8975	289	5409	1626	25765	5247	29322
NC YTD Tot*	163	30353	22	3238	10	701	70	9549	115	9539

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 89

RELEASED: January 3, 1990

Metal Forming Machine Tools

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	455	7092	28	294
8462100030	Headers and upsetters, including cold headers	66	13746	9	834
100050	Forging or die stamping machines, and hammers, n.e.c.	589	17414	13	1100
210080	Bending, folding, straight. or flat. mach., incl presses, NC	292	20009	30	3069
290030	Press brakes, non-NC	30	1259	1	5
290040	Bending rolls, non-NC	52	1579	6	169
290050	Bending, folding, straight., or flat., n.e.c., non-NC	499	19201	57	2118
310080	Shearing machines, NC	50	3799	3	150
390050	Shearing machines, non-NC	165	3530	8	86
410080	Punching or notching mach., incl. comb. punch & shear, NC	132	21007	7	1433
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	651	20189	36	1219
910060	Hydraulic presses, NC	77	4314	9	672
910090	Hydraulic presses, non-NC	491	21975	57	2317
990030	Presses, n.e.c., NC	51	6151	13	1375
990040	Presses, mechanical, non-NC	142	8720	12	2259
990060	Presses, n.e.c., non-NC	519	27342	53	1880
8463100080	Draw benches for bars, tubes, profiles, wire or the like	230	5154	9	325
200080	Thread rolling machines	33	2590	4	80
300080	Machines for working wire	795	27935	60	2185
900080	Metal forming machine tools, n.e.c.	1842	88592	74	3875
9800000002	Used or rebuilt machine tools	2902	57876	183	2513
9900000002	Machine tools valued at less than $2,500	5101	3817	400	283
	Forming Total			1102	28241
	Y-T-D Forming Total	15164	383291		
	NC Y-T-D Forming Total	602	55279		
	Cutting and Forming Totals:				
	Monthly Total			6636	74207
	Y-T-D Total	64185	786972		
	NC Y-T-D Total*	2009	209890		

Other Manufacturing Technology

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	598838	0	63138
2710003070	Quenching or cutting oils	0	10145	0	1170
8428900010	Industrial robots for lifting, handling, loading or unload	745	10470	30	246
8456100000	Laser, light or photon beam for working any material	2132	37822	96	5023
200000	Ultrasonic process for working any material	90	760	7	148
8477106010	Injection molding mach., for rubber or oth. thermosetting	186	17784	21	3577
106050	Injection molding mach., for thermoplastics	349	38492	16	1322
200010	Extruders for rubber or other thermosetting materials	244	10217	24	612
200050	Extruders for processing thermoplastics	811	32391	64	2017
300000	Blow molding machines	405	25434	92	2066
400000	Vacuum-molding and other thermoforming machines	1503	14345	119	1173
8479899040	Industrial robots, n.e.c.	2049	28280	192	2619
900040	Industrial robot parts	0	11115	0	939
8537100030	Numerical controls for controlling machine tools	8731	34895	231	3322
9024100000	Machines and appliances for testing metals	0	62786	0	6261
9031100000	Machines for balancing mechanical parts	0	19071	0	1884
300000	Profile projectors	0	6802	0	523
9032810040	Industrial process control instr., hydraulic or pneumatic	567169	38206	89027	5097

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 89

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	13	166
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	19	0	0	0	0	10	437
210080	2	64	0	0	0	0	0	0	12	568
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	26
290050	6	146	0	0	0	0	0	0	14	187
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	3	62
410080	0	0	0	0	0	0	0	0	3	360
490050	0	0	0	0	1	4	1	260	13	58
910060	0	0	0	0	0	0	0	0	1	9
910090	0	0	0	0	0	0	0	0	5	162
990030	2	110	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	1	418	0	0
990060	5	155	0	0	0	0	0	0	0	0
8463100080	1	74	0	0	0	0	0	0	2	43
200080	0	0	0	0	0	0	0	0	2	11
300080	0	0	0	0	0	0	5	51	13	349
900080	2	247	0	0	0	0	0	0	9	179
9800000002	0	0	0	0	0	0	0	0	40	692
9900000002	51	25	0	0	0	0	0	0	21	23
Month Tot	69	820	1	19	1	4	7	729	162	3332
Y-T-D Tot	500	6290	107	681	135	2389	113	6537	2484	36559
NC YTD Tot	27	1357	0	0	0	0	10	701	130	12653
C&F Month	108	1267	2	285	16	705	186	2247	2857	10007
C&F Y-T-D	1247	14923	165	1935	318	8678	633	15669	24784	91710
C&F NC YTD*	40	2620	5	646	36	4036	54	4227	322	33081

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	881	0	133	0	419	0	651	0	9354
2710003070	0	70	0	0	0	9	0	0	0	114
8428900010	0	0	0	0	0	0	0	0	16	59
8456100000	0	0	0	0	0	0	0	0	5	358
200000	0	0	0	0	0	0	0	0	0	0
8477106010	1	143	0	0	0	0	0	0	6	288
106050	0	0	4	293	0	0	0	0	2	174
200010	0	0	0	0	0	0	0	0	0	0
200050	1	48	0	0	0	0	16	397	3	138
300000	0	0	0	0	0	0	0	0	41	780
400000	0	0	0	0	4	32	3	4	29	144
8479899040	0	0	0	0	0	0	0	0	20	931
900040	0	15	0	0	0	0	0	0	0	121
8537100030	0	0	0	0	2	22	0	0	20	298
9024100000	0	69	0	0	0	6	0	652	0	548
9031100000	0	0	0	0	0	0	0	0	0	316
300000	0	0	0	0	0	0	0	0	0	12
9032810040	1026	50	1157	60	1304	65	675	37	4424	474

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 89

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	2	15	1	13	1	5	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	11	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	11
290050	4	763	2	83	3	25	0	0	1	14
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	10	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	4	360	0	0	1	5	3	38
910060	1	347	0	0	0	0	0	0	0	0
910090	0	0	0	0	1	623	0	0	0	0
990030	0	0	0	0	0	0	0	0	1	235
990040	0	0	3	988	4	192	0	0	0	0
990060	0	0	0	0	0	0	0	0	1	30
8463100080	0	0	0	0	2	70	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	3	68	1	48	0	0	0	0	3	100
900080	0	0	0	0	3	72	0	0	3	49
9800000002	0	0	5	111	5	31	1	5	2	30
9900000002	0	0	0	0	0	0	0	0	5	4
Month Tot	8	1178	18	1615	20	1037	3	15	20	511
Y-T-D Tot	242	10093	387	7447	111	8597	28	167	193	7218
NC YTD Tot	22	868	5	406	4	1067	1	15	6	2782
C&F Month	92	2867	215	2172	59	3227	6	49	364	1420
C&F Y-T-D	798	34044	1207	17985	337	19226	129	4297	980	18987
C&F NC YTD*	120	15565	55	7376	10	2787	7	1983	24	4202

Other Manufacturing Technology

1000000000	0	1563	0	1415	0	625	0	784	0	882
2710003070	0	0	0	0	0	0	0	45	0	25
8428900010	0	0	6	65	0	0	0	0	0	0
8456100000	4	503	2	31	1	111	0	0	2	43
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	4	90	15	372	0	0	1	164
300000	1	58	0	0	0	0	0	0	7	37
400000	0	0	0	0	0	0	0	0	1	11
8479899040	0	0	14	85	0	0	0	0	2	52
900040	0	0	0	19	0	0	0	0	0	0
8537100030	0	0	41	563	0	0	0	0	12	116
9024100000	0	61	0	118	0	50	0	37	0	157
9031100000	0	89	0	0	0	570	0	0	0	0
300000	0	0	0	48	0	0	0	0	0	84
9032810040	10	25	2535	159	254	30	222	11	3538	200

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 89

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	18	0	0	0	0	2	17	0	0
8462100030	0	0	6	180	0	0	0	0	0	0
100050	2	105	4	79	0	0	12	227	0	0
210080	1	650	5	214	0	0	7	343	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	1	10	0	0	0	0	2	32	0	0
290050	1	123	3	241	0	0	3	16	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	4	15	0	0
410080	0	0	1	810	1	88	0	0	0	0
490050	0	0	0	0	0	0	2	20	0	0
910060	0	0	0	0	0	0	2	78	0	0
910090	0	0	1	46	0	0	45	539	0	0
990030	3	325	0	0	0	0	0	0	4	493
990040	1	423	1	110	0	0	0	0	0	0
990060	2	214	4	81	0	0	29	653	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	2	69	0	0
300080	2	652	1	50	0	0	7	147	0	0
900080	6	159	4	26	2	31	10	198	1	7
9800000002	3	199	0	0	0	0	68	534	0	0
9900000002	66	59	0	0	0	0	34	38	0	0
Month Tot	91	2937	30	1836	3	119	229	2926	5	500
Y-T-D Tot	862	39832	840	52353	27	1498	2881	35068	366	6250
NC YTD Tot	99	8325	51	4643	7	1011	50	3691	23	2820
C&F Month	310	4986	85	3191	24	183	759	8541	10	536
C&F Y-T-D	3753	66232	2385	86912	128	2488	9133	90094	777	9810
C&F NC YTD*	231	17033	188	18114	10	1146	211	15784	42	4719

Other Manufacturing Technology

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	6237	0	1966	0	410	0	4035	0	492
2710003070	0	84	0	0	0	11	0	20	0	14
8428900010	0	0	0	0	1	9	0	0	0	0
8456100000	21	2367	5	244	2	46	4	88	0	0
200000	3	57	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	8	462	0	0
106050	0	0	1	86	0	0	5	420	0	0
200010	0	0	0	0	0	0	18	505	0	0
200050	6	121	0	0	0	0	2	185	0	0
300000	0	0	0	0	0	0	25	413	0	0
400000	1	7	0	0	0	0	8	107	0	0
8479899040	14	89	15	41	1	95	0	0	2	17
900040	0	36	0	0	0	4	0	338	0	0
8537100030	1	8	2	41	1	11	0	0	5	167
9024100000	0	1060	0	1429	0	0	0	199	0	10
9031100000	0	62	0	69	0	3	0	196	0	0
300000	0	208	0	59	0	0	0	5	0	0
9032810040	4537	314	887	154	0	0	366	152	12969	664

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 89

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	6	0	0	0	0	0	0	0	0
210080	0	0	1	44	0	0	1	1124	5	83
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	4	3	31	1	15	0	0	2	8
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	4	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	1	42
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	3	72	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	2	19	0	0	4	100	0	0	0	0
900080	1	13	0	0	1	8	2	1110	0	0
9800000002	3	300	0	0	0	0	0	0	7	4
9900000002	0	0	0	0	0	0	6	5	0	0
Month Tot	12	418	4	75	6	123	9	2239	15	136
Y-T-D Tot	182	7062	102	3768	47	1337	230	17293	87	3456
NC YTD Tot	15	2546	2	138	8	375	13	2549	6	456
C&F Month	119	1248	9	265	26	452	29	2792	25	403
C&F Y-T-D	950	14244	327	6765	302	4676	826	25013	181	5599
C&F NC YTD*	49	4942	5	979	24	1989	48	5154	25	1250

Other Manufacturing Technology

1000000000	0	1503	0	329	0	516	0	1007	0	335
2710003070	0	14	0	0	0	0	0	171	0	29
8428900010	5	47	0	0	0	0	0	0	0	0
8456100000	0	0	0	0	0	0	2	56	0	0
200000	0	0	1	21	0	0	0	0	0	0
8477106010	0	0	5	1911	0	0	0	0	0	0
106050	1	85	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	4	64	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	23	198	0	0	0	0	0	0	3	312
8479899040	1	6	0	0	37	425	0	0	3	65
900040	0	0	0	0	0	29	0	0	0	0
8537100030	1	10	0	0	1	17	3	47	1	21
9024100000	0	156	0	10	0	39	0	232	0	17
9031100000	0	175	0	7	0	0	0	138	0	3
300000	0	40	0	0	0	0	0	12	0	0
9032810040	8836	496	109	8	76	11	5870	334	21591	65

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 89

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	2	15	4	45
8462100030	0	0	0	0	0	0	2	294	1	360
100050	0	0	0	0	2	49	3	66	2	20
210080	1	62	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	1	5
290040	0	0	0	0	0	0	0	0	1	92
290050	0	0	0	0	0	0	6	258	7	205
310080	2	109	0	0	0	0	0	0	1	41
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	2	175
490050	1	10	0	0	0	0	2	235	7	225
910060	1	58	0	0	0	0	2	78	1	60
910090	0	0	0	0	0	0	0	0	5	946
990030	2	197	0	0	0	0	0	0	1	15
990040	0	0	0	0	0	0	0	0	2	129
990060	5	129	0	0	1	31	5	504	1	83
8463100080	0	0	0	0	0	0	0	0	1	65
200080	0	0	0	0	0	0	0	0	0	0
300080	4	155	0	0	1	25	0	0	14	421
900080	1	7	0	0	0	0	22	662	7	1086
9800000002	5	71	0	0	1	45	1	15	42	477
9900000002	84	65	0	0	0	0	53	37	80	27
Month Tot	106	863	0	0	5	149	98	2184	180	4476
Y-T-D Tot	1111	35884	6	977	185	7835	805	22196	3133	62502
NC YTD Tot	56	3051	3	176	3	89	8	982	53	4579
C&F Month	331	12643	2	2496	20	445	277	4742	705	7037
C&F Y-T-D	3500	84703	40	9952	474	13244	2431	47962	8380	91824
C&F NC YTD*	219	33404	25	3415	13	790	78	10531	168	14118

Other Manufacturing Technology

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	7024	0	499	0	341	0	4298	0	17441
2710003070	0	20	0	0	0	0	0	36	0	508
8428900010	0	0	0	0	0	0	2	66	0	0
8456100000	3	97	0	0	6	140	14	415	25	526
200000	3	70	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	774
106050	1	42	0	0	0	0	2	222	0	0
200010	0	0	0	0	0	0	4	75	2	32
200050	0	0	0	0	0	0	1	35	11	403
300000	5	7	0	0	0	0	7	317	3	142
400000	4	231	0	0	0	0	38	332	5	43
8479899040	3	265	0	0	0	0	72	436	11	179
900040	0	150	0	0	0	4	0	81	0	141
8537100030	104	1411	0	0	0	0	22	320	15	270
9024100000	0	370	0	66	0	0	0	367	0	607
9031100000	0	0	0	0	0	11	0	111	0	136
300000	0	12	0	0	0	0	0	0	0	42
9032810040	8484	715	0	0	31	30	4221	671	5905	374

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
October 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	1	21	0	0	1	21
East Germany	0	0	1	76	1	76
Finland	0	0	4	4	4	4
Greece	0	0	0	0	0	0
Hungary	0	0	1	10	1	10
Iceland	0	0	0	0	0	0
Ireland	2	10	3	88	5	98
Luxembourg	0	0	0	0	0	0
Norway	0	0	2	116	2	116
Poland	0	0	1	60	1	60
Portugal	0	0	2	106	2	106
Romania	0	0	0	0	0	0
Sweden	75	123	6	1029	81	1151
Turkey	7	124	1	11	8	135
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	0	0	0	0
TOTAL	1078	20101	280	7393	1358	27495
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	9	70	9	70
Belize	1	7	0	0	1	7
Bermuda	1	16	0	0	1	16
Costa Rica	153	8	3	7	156	15
Dominican Rep	0	0	4	52	4	52
El Salvador	1	31	2	21	3	52
Guatemala	8	6	16	31	24	37
Haiti	0	0	2	30	2	30
Honduras	0	0	2	11	2	11
Jamaica	0	0	2	175	2	175
Panama	0	0	4	83	4	83
Trinidad	0	0	0	0	0	0
Oth N & C Am.	4	37	2	31	6	67
TOTAL	3393	12395	437	6768	3830	19164
SOUTH AMERICA						
Argentina	2	158	0	0	2	158
Bolivia	1	170	0	0	1	170
Chile	6	6	7	198	13	203
Colombia	25	525	3	508	28	1033
Ecuador	0	0	1	17	1	17
Paraguay	0	0	0	0	0	0
Peru	1	209	0	0	1	209
Uruguay	3	25	0	0	3	25
Oth South Am.	2	26	0	0	2	26
TOTAL	234	2934	23	1601	257	4534
OCEANIA						
New Zealand	1	4	1	24	2	28
Oth Oceania	1	28	0	0	1	28
TOTAL	41	478	70	844	111	1322

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
October 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	163	427	88	200	251	627
Iran	0	0	1	101	1	101
Iraq	4	274	0	0	4	274
Israel	6	13	4	913	10	926
Jordan	0	0	0	0	0	0
Kuwait	3	9	0	0	3	9
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	1	3	1	92	2	94
Philippines	44	193	3	53	47	246
Qatar	0	0	0	0	0	0
Saudi Arabia	0	0	2	136	2	136
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	4	30	0	0	4	30
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	783	9980	290	11410	1073	21390
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	1	34	1	113	2	147
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	1	25	1	111	2	136
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	1	10	0	0	1	10
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	2	10	0	0	2	10
Oth Africa	0	0	0	0	0	0
TOTAL	5	79	2	224	7	302

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

47620-3

REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICS

No. 14-90 January 31, 1990

U.S. FOREIGN TRADE -- NOVEMBER 1989

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY

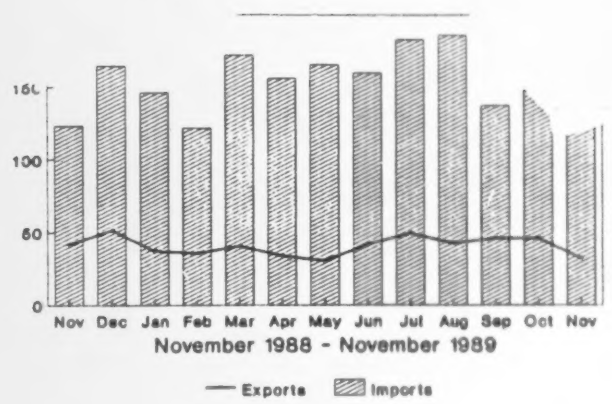
(Millions of U.S. Dollars)

	Nov. 1989	Oct. 1989	% Change Oct.-Nov.	Year to Date '89	Year to Date '88	% Change '88-'89
METAL CUTTING MACHINE TOOLS						
Imports	$129.5	$147.5	(12.2%)	$1,704.0	$1,378.8	23.6%
Exports	$ 32.0	$ 46.0	(30.4%)	$ 435.7	$ 392.2	11.1%
Balance	($ 97.5)	($101.5)	(3.9%)	($1,268.3)	($ 986.6)	28.6%
METAL FORMING MACHINE TOOLS						
Imports	$ 41.4	$ 36.3	14.0%	$ 503.6	$ 463.5	8.7%
Exports	$ 36.3	$ 28.2	28.7%	$ 419.6	$ 286.0	46.7%
Balance	($ 5.1)	($ 8.1)	(37.0%)	($ 84.0)	($ 177.5)	(52.7%)
MACHINE TOOL TOTAL						
Imports	$171.0	$183.8	(7.0%)	$2,207.6	$1,842.3	19.8%
Exports	$ 68.3	$ 74.2	(8.0%)	$ 855.3	$ 678.2	26.1%
Balance	($102.7)	($109.6)	(6.3%)	($1,352.3)	($1,164.1)	16.2%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Imports	$ 95.3	$104.8	(9.1%)	$1,189.6	NA	NA
Exports	$ 15.6	$ 26.8	(41.8%)	$ 225.5	NA	NA
Balance	($ 79.7)	($ 78.0)	2.2%	($ 964.1)	NA	NA
OTHER MANUFACTURING TECHNOLOGY						
Imports	$119.3	$111.5	7.0%	$1,303.3	NA	NA
Exports	$ 90.3	$101.1	(10.7%)	$1,088.2	NA	NA
Balance	($ 29.0)	($ 10.4)	178.8%	($ 215.1)	NA	NA

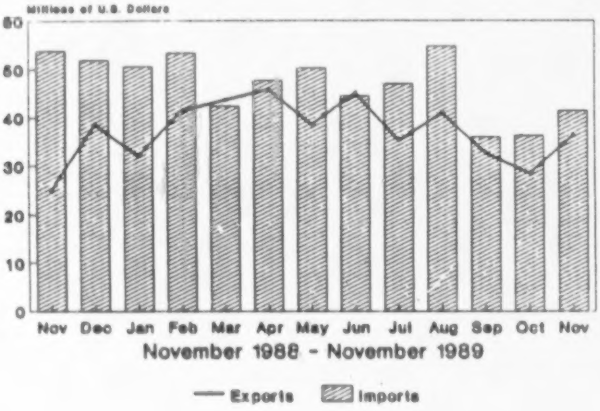
Note: Numerically controlled machine tools includes both metal cutting and metal forming machines, and is included in the respective totals. NA = not available; ( ) denotes negative; individual items may not add up to totals due to rounding.

During November 1989 imports of machine tools fell 7% compared with October to $171.0 million, the lowest monthly import total since October 1988. Exports of machine tools fell 8% to $68.3 million, the lowest monthly export level since November 1988. Year-to-date machine tool exports are 26% higher compared with 1988; year-to-date machine tool imports are 20% higher this year than last. Monthly imports of NC machines fell 9% to $95.3 million, while exports of NC machines fell 42% to $15.6 million. The overall machine tool trade deficit in November was $102.7 million, down 6% from October.

U.S. MONTHLY TRADE IN MACHINE TOOLS



METAL FORMING



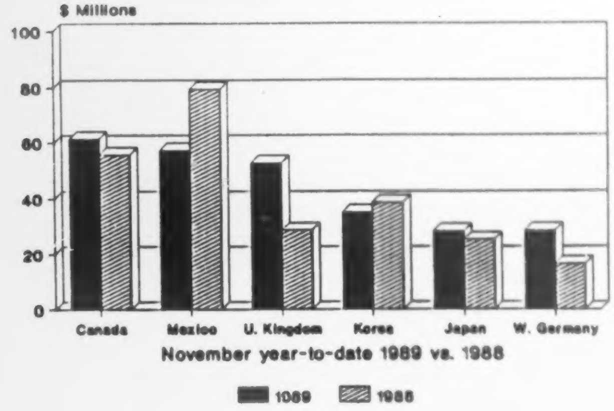
METAL CUTTING

Exports

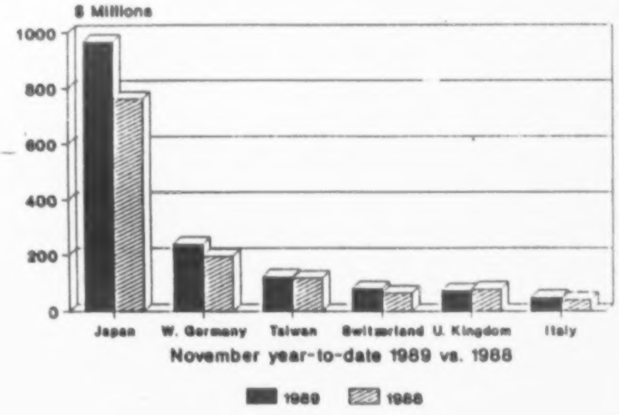
Exports of metal cutting machine tools fell 30% in November compared with October to $32.0 million, due largely to a drop in exports to the United Kingdom ($3.9 million in November from $11.8 million in October) and Mexico ($2.3 million in November from $5.6 million in October). Canada is the leading year-to-date U.S. export market for metal cutting machines at $61.4 million, up 10% over this time last year, followed by Mexico ($57.3 million, down 28%), the United Kingdom ($52.7 million, up 85%), and South Korea ($35.2 million, down 9%.) Exports in November of drilling machines ($0.6 million, down 76% from October) and milling machines ($0.3 million, down 90% from October) were the lowest monthly totals of 1989.

METAL CUTTING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS



LEADING U.S. IMPORT SOURCES



Imports

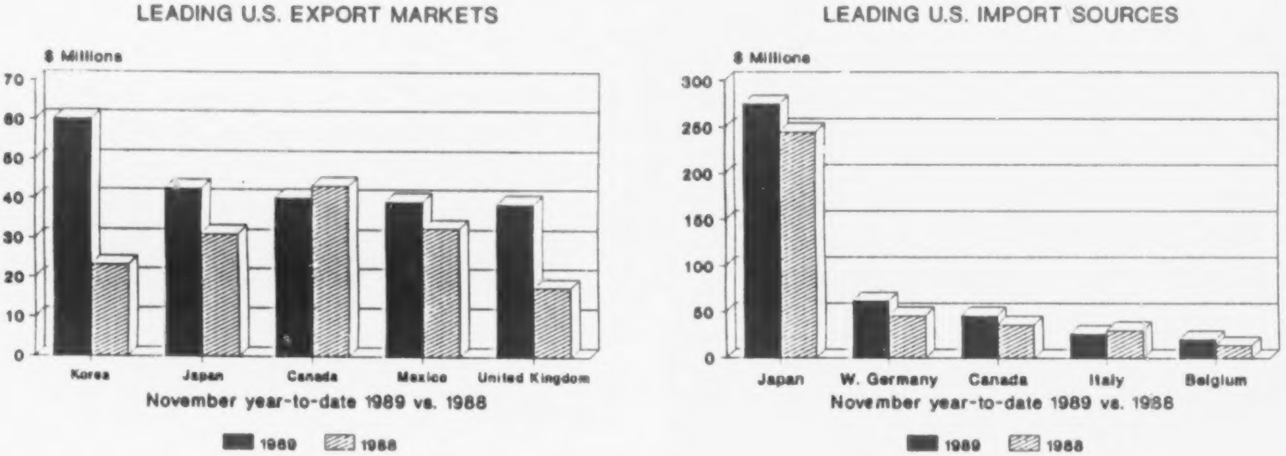
Metal cutting machine tool imports in November dropped 12% compared with October to $129.5 million, the lowest monthly total since February 1989. Imports from Japan in November were $64.6 million, the third consecutive monthly decline in imports from Japan and the lowest monthly total since October 1988. Imports from West Germany and Taiwan also fell more than 30% in November compared with October. Imports of machining centers fell 21% to $32.5 million; imports of grinding machines fell 22% to $15.0 million; and imports of gear cutting machines rose more than three-fold to $5.0 million compared with October. Year-to-date metal cutting machine tool imports are up 24% over last year; in the first 11 months of 1989 Japan supplied 57% ($966.4 million) of the $1.7 billion in U.S. metal cutting machine tool imports.

METAL FORMING

Exports

U.S. exports of metal forming machine tools jumped 29% from October to November to $36.3 million. Year-to-date exports of metal forming machines are 47% higher than last year. The largest metal forming export market in November was Korea at $7.8 million, up from $1.8 million in October, followed by West Germany and Mexico ($4.1 million each). Korea is far and away the leading U.S. export market for forming machines at $60.2 million through November. Exports in November of forging machines totalled $6.5 million, up 237% over October, while exports of "other metal forming machines" almost doubled to $12.8 million.

METAL FORMING MACHINE TOOL FOREIGN TRADE



LEADING U.S. EXPORT MARKETS

LEADING U.S. IMPORT SOURCES

Imports

Imports of metal forming machine tools rose 14% in November compared with October to $41.4 million, but was still the third lowest monthly total of the year. Imports from Japan jumped 76% from October to $21.9 million, including $6.3 million in forging machines and $3.1 million in die casting machines. Year-to-date metal forming imports of $503.6 million are 9% higher this year than last. Imports of both forging machines and bending and forming machines in November rose for the second month in a row; imports of presses fell slightly in November to $7.0 million. Japan is the largest year-to-date import source of metal forming machines ($274.6 million), followed by West Germany, Canada and Italy.

OTHER MANUFACTURING TECHNOLOGY

Exports

U.S. exports of other manufacturing technology fell 11% to $90.3 million from October to November. Exports of machine tool parts and accessories fell 7% to $58.9 million, and included exports of $8.0 million to Japan and the United Kingdom and $6.3 million to China. November exports of industrial robots and parts rose 7% to $4.1 million; exports of injection molding machinery rose 15% to $5.6 million. Japan was the leading U.S. export market during November at $11.1 million, followed by the United Kingdom ($11.1 million) and Canada ($10.0 million). Canada remains the year-to-date leader in U.S. exports of other manufacturing technology through November at $170.9 million, followed by the United Kingdom, Japan, Mexico, and West Germany.

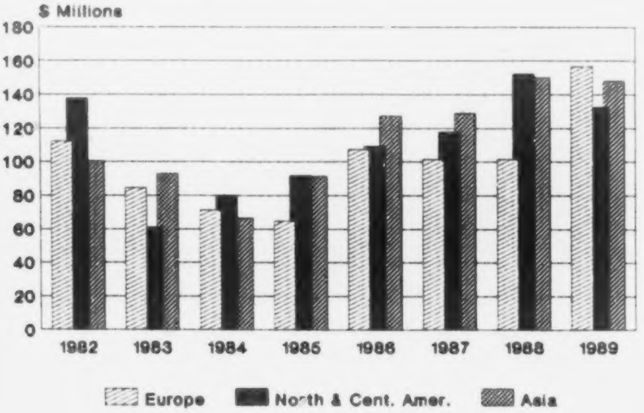
Imports

U.S. imports of other manufacturing technology rose 7% in November over October to $119.3 million. Imports of machine tool parts and accessories fell 17% compared with October to $40.8 million; imports of extruders rose 82% to $5.4 million. Imports of injection molding machinery rose 33% to $32.8 million, while imports of industrial robots and parts rose 6% to $24.1 million. Imports from Japan rose 7% in November to $57.2 million, including $13.1 million of injection molding machines and $16.6 million of industrial robots and parts. Imports from West Germany rose 23% in November to $24.1 million and included machine tool parts and accessories ($9.6 million) and injection molding machinery ($7.9 million).

MONTHLY FOCUS

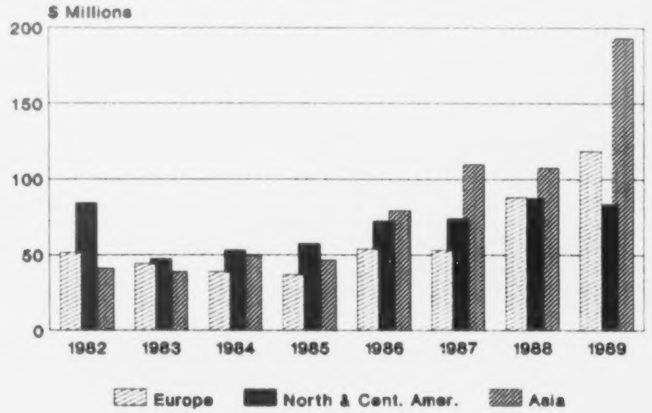
Asia is currently the leading U.S. export region, with U.S. machine tool exports of $313.1 million in 1989 through November. This figure already far exceeds last year's record export total of $257.5 million to the region. Exports to Europe totalled $261.4 million in 1989 through November, also a record. The charts below show U.S. metal cutting and metal forming machine tool exports to Asia, Europe, and North and Central America in recent years. Since 1986 Asia has been the top export market for metal forming machines, while the three regions have fluctuated as the top export market for metal cutting machines.

U.S. Metal Cutting Machine Tool Exports
By Regional Destination, 1980-1989



1989 data - Jan-Nov annualized

U.S. Metal Forming Machine Tool Exports
By Regional Destination, 1980-1989



1989 data - Jan-Nov annualized

1989 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY		FEBRUARY		MARCH		APRIL	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	4,001	$ 9,651,663	3,732	$12,688,394	6,637	$13,092,251	5,141	$12,327,284
Boring Machines	74	638,181	26	2,545,592	18	3,222,763	17	950,038
Drilling Machines	18	895,459	17	696,798	15	1,308,988	27	1,314,012
Gear Cutting Machines	36	5,448,728	21	2,086,374	9	2,158,882	6	849,917
Grinding Machines	230	7,834,870	294	8,944,628	504	11,634,092	317	9,161,095
Horizontal Lathes NC	16	2,019,282	5	461,768	31	2,496,490	35	3,253,292
Vertical Lathes NC	2	366,000	0	0	2	112,569	0	0
Lathes Non-NC	16	465,926	56	1,275,656	59	1,492,297	43	1,613,647
Milling Machines	66	4,903,870	89	3,273,726	30	2,019,223	46	1,805,710
Machining Centers	21	3,086,413	22	5,831,777	14	1,491,145	28	3,534,392
Station Type Machines	4	1,498,740	5	2,392,333	9	3,248,541	5	929,962
Other Metal Cutting	257	4,584,770	265	2,822,073	210	5,030,489	161	4,263,085
Punching & Shearing	63	2,957,497	127	7,132,924	110	5,651,176	105	3,794,853
Bending & Forming Machines	84	3,433,140	104	3,074,999	94	4,555,647	107	4,294,467
Presses	133	5,590,097	115	5,951,499	119	5,662,008	116	6,281,018
Forging Machines	46	3,249,295	74	3,224,180	73	2,223,430	38	4,463,652
Other Metal Forming	322	12,540,612	266	14,907,382	527	18,723,205	467	20,849,780
TOTAL	5,389	$69,164,543	5,218	$77,310,103	8,461	$84,123,196	6,659	$79,686,204

PRODUCT TYPES	MAY		JUNE		JULY		AUGUST	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	4,512	$10,318,184	3,556	$17,348,522	4,243	$14,523,609	5,859	$10,954,511
Boring Machines	10	1,811,008	29	1,671,316	4	75,744	26	1,370,063
Drilling Machines	39	2,487,530	33	1,653,649	24	1,428,421	42	1,575,597
Gear Cutting Machines	17	1,579,602	22	4,722,265	55	5,208,745	18	3,423,837
Grinding Machines	227	5,612,584	321	12,488,637	392	19,501,133	349	12,629,954
Horizontal Lathes NC	13	1,205,227	26	3,018,171	13	1,512,085	12	1,014,932
Vertical Lathes NC	1	80,170	5	738,521	2	367,521	3	368,610
Lathes Non-NC	37	1,373,016	41	776,438	59	1,779,338	39	1,110,067
Milling Machines	35	2,375,933	37	1,408,096	74	4,101,114	39	1,503,000
Machining Centers	28	3,340,264	14	1,650,056	23	4,190,223	34	3,690,718
Station Type Machines	7	1,176,710	0	0	1	45,678	6	5,025,800
Other Metal Cutting	167	3,352,346	226	8,360,124	130	6,166,339	178	4,880,157
Punching & Shearing	74	5,837,129	120	4,665,277	105	4,248,102	118	6,391,378
Bending & Forming Machines	91	7,421,103	72	4,269,185	84	2,346,841	80	4,172,832
Presses	172	5,741,420	143	8,063,327	97	8,025,313	118	8,418,897
Forging Machines	63	3,165,982	74	4,247,697	49	2,299,970	77	2,971,894
Other Metal Forming	568	12,219,709	293	11,931,694	252	8,625,468	277	13,789,261
TOTAL	6,061	$69,097,917	5,012	$87,012,975	5,607	$84,445,644	7,275	$83,291,508

1989 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER		OCTOBER		NOVEMBER	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	6,537	$10,153,000	4,883	$ 8,099,179	3,643	$ 9,099,729
Boring Machines	7	455,605	4	274,938	28	1,311,525
Drilling Machines	74	1,667,003	338	2,562,057	64	608,955
Gear Cutting Machines	8	2,758,714	16	5,122,064	48	4,982,715
Grinding Machines	234	10,589,426	465	12,020,573	242	5,773,319
Horizontal Lathes NC	32	5,329,579	29	3,070,304	20	2,041,092
Vertical Lathes NC	0	0	2	360,933	1	155,000
Lathes Non-NC	37	530,811	39	961,735	45	648,656
Milling Machines	30	1,466,905	42	3,215,606	11	334,380
Machining Centers	75	7,466,254	48	2,579,397	36	5,134,324
Station Type Machines	7	4,126,477	6	5,512,170	3	2,739,207
Other Metal Cutting	201	5,348,111	245	4,983,895	178	3,016,142
Punching & Shearing	122	4,957,288	54	2,888,326	141	3,752,463
Bending & Forming Machines	63	3,118,880	94	5,361,439	80	2,322,597
Presses	123	6,266,003	144	8,502,848	158	7,063,268
Forging Machines	109	3,380,224	52	1,933,851	110	6,521,456
Other Metal Forming	208	11,018,013	175	6,758,040	238	12,843,187
TOTAL	7,867	$78,632,293	6,636	$74,207,355	5,046	$68,348,015

1989 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	1ST QUARTER TOTALS		2ND QUARTER TOTALS		3RD QUARTER TOTALS		FIRST SIX MONTH TOTALS	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	14,370	$ 35,432,308	13,209	$ 39,993,990	16,639	$ 35,631,120	27,579	$ 75,426,298
Boring Machines	118	6,406,536	56	4,432,362	37	1,901,412	174	10,838,898
Drilling Machines	50	2,901,245	99	5,455,191	140	4,671,021	149	8,356,436
Gear Cutting Machines	66	9,693,984	45	7,151,784	81	11,391,296	111	16,845,768
Grinding Machines	1,028	28,413,590	865	27,262,316	975	42,720,513	1,893	55,675,906
Horizontal Lathes NC	52	4,977,540	74	7,476,690	57	7,856,596	126	12,454,230
Vertical Lathes NC	4	478,569	6	818,691	5	736,131	10	1,297,260
Lathes Non-NC	131	3,233,879	121	3,763,101	135	3,420,216	252	6,996,980
Milling Machines	185	10,196,819	118	5,589,739	143	7,071,019	303	15,786,558
Machining Centers	57	10,409,335	70	8,524,712	132	15,347,195	127	18,934,047
Station Type Machines	18	7,139,614	12	2,106,672	14	9,197,955	30	9,246,286
Other Metal Cutting	732	12,437,332	554	15,975,555	509	16,394,607	1,286	28,412,887
Punching & Shearing	300	15,741,597	299	14,297,259	345	15,596,768	599	30,038,856
Bending & Forming Machines	282	11,063,786	270	15,984,755	227	9,638,553	552	27,048,541
Presses	367	17,203,604	431	20,085,765	338	22,710,213	798	37,289,369
Forging Machines	193	8,696,905	175	11,877,331	235	8,652,088	368	20,574,236
Other Metal Forming	1,115	46,171,199	1,328	45,001,183	737	33,432,742	2,443	91,172,382
TOTAL	19,068	$230,597,842	17,732	$235,797,096	20,749	$246,369,445	36,800	$466,394,938

PRODUCT TYPES	NOVEMBER Y-T-D TOTALS		% CHANGE 1ST-2ND QUARTER		% CHANGE 2ND-3RD QUARTER	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	52,744	$128,256,326	-8.08%	12.87%	25.97%	-10.91%
Boring Machines	243	14,326,773	-52.54	-30.81	-33.93	-57.10
Drilling Machines	691	16,198,469	98.00	88.03	41.41	-14.37
Gear Cutting Machines	256	38,341,843	-31.82	-26.22	80.00	59.28
Grinding Machines	3,575	116,190,311	-15.86	-4.05	12.72	56.70
Horizontal Lathes NC	232	25,422,222	42.31	50.21	-22.97	5.08
Vertical Lathes NC	18	2,549,324	50.00	71.07	-16.67	-10.08
Lathes Non-NC	471	12,027,587	-7.63	16.36	11.57	-9.11
Milling Machines	499	26,407,563	-36.22	-45.18	21.19	26.50
Machining Centers	343	41,994,963	22.81	-18.11	88.57	80.03
Station Type Machines	53	26,695,618	-33.33	-70.49	16.67	336.61
Other Metal Cutting	2,218	52,807,531	-24.32	28.45	-8.12	2.62
Punching & Shearing	1,139	52,276,413	-0.33	-9.18	15.38	9.09
Bending & Forming Machines	953	44,371,130	-4.26	44.48	-15.93	-39.70
Presses	1,438	75,565,698	17.44	16.75	-21.58	13.07
Forging Machines	765	37,681,631	-9.33	36.57	34.29	-27.15
Other Metal Forming	3,593	144,206,351	19.10	-2.53	-44.50	-25.71
TOTAL	69,231	$855,319,753	-7.01	2.25	17.01	4.48

1989 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY		FEBRUARY		MARCH		APRIL	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	40,903	$ 10,113,655	28,520	$ 12,085,985	51,136	$ 12,059,838	53,299	12,791,125
Boring Machines	89	7,646,136	74	5,470,749	89	9,365,627	62	2,622,059
Drilling Machines	161	10,160,328	120	7,005,035	162	6,883,656	173	9,029,944
Gear Cutting Machines	46	4,358,306	23	2,222,717	67	1,681,440	24	1,627,946
Grinding Machines	560	13,559,864	606	14,282,507	620	29,083,045	718	27,286,695
Horizontal Lathes NC	366	33,687,505	321	27,833,919	364	35,957,086	296	26,315,649
Vertical Lathes NC	13	1,199,802	10	1,610,472	5	424,971	19	1,935,853
Lathes Non-NC	560	7,822,799	352	5,663,166	399	6,877,263	484	7,059,595
Milling Machines	410	9,722,408	316	8,491,551	435	17,093,177	604	9,709,582
Machining Centers	315	34,929,013	211	25,193,738	257	28,052,640	318	30,857,850
Station Type Machines	11	1,801,730	30	1,648,674	7	3,375,197	16	11,494,843
Other Metal Cutting	311	12,467,388	355	12,764,694	600	24,026,638	392	16,945,014
Punching & Shearing	161	7,053,551	153	5,222,761	113	6,861,975	128	4,809,075
Bending Forming Machines	183	8,366,797	194	7,673,335	199	5,639,375	181	9,461,859
Presses	239	11,386,574	189	25,984,776	154	17,014,014	111	9,382,988
Forging Machines	236	13,641,470	131	5,000,422	133	2,474,805	95	13,948,522
Other Metal Forming	129	8,724,784	939	7,345,113	1,089	7,539,827	471	8,290,431
TOTAL	44,693	$196,642,110	32,544	$175,499,614	55,829	$214,410,574	57,391	203,569,030

PRODUCT TYPES	MAY		JUNE		JULY		AUGUST	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	55,283	$ 15,897,111	69,060	$ 13,921,578	77,910	$ 13,718,883	74,032	$ 16,965,543
Boring Machines	56	2,914,892	72	2,527,722	81	7,293,496	75	3,376,302
Drilling Machines	198	8,206,249	152	4,725,223	104	5,203,287	248	9,230,435
Gear Cutting Machines	92	5,184,412	145	5,584,652	61	3,683,843	57	5,892,446
Grinding Machines	703	28,618,882	774	23,858,043	649	31,278,466	829	32,609,425
Horizontal Lathes NC	370	37,390,197	359	31,870,568	429	33,974,512	352	32,470,483
Vertical Lathes NC	21	3,192,456	13	2,027,113	11	5,265,883	16	1,717,600
Lathes Non-NC	406	7,181,037	444	11,364,045	503	7,584,504	540	6,924,904
Milling Machines	533	6,525,800	534	5,485,628	556	12,482,002	641	11,154,525
Machining Centers	293	31,263,982	326	40,246,641	335	38,239,581	396	40,355,378
Station Type Machines	19	4,417,149	19	4,361,363	26	10,264,530	32	9,664,860
Other Metal Cutting	450	16,125,897	423	15,836,967	442	15,809,995	504	16,912,954
Punching & Shearing	103	4,809,616	226	8,847,890	243	9,209,241	106	5,451,018
Bending Forming Machines	535	9,628,758	200	9,413,493	216	7,023,861	153	8,870,175
Presses	161	12,083,555	156	8,735,506	103	8,456,517	148	23,625,962
Forging Machines	155	9,299,745	105	5,532,553	189	9,336,801	94	4,160,854
Other Metal Forming	545	13,071,111	188	9,705,046	185	10,660,150	238	10,893,099
TOTAL	59,923	$215,810,849	73,196	$204,044,031	82,043	$229,485,552	78,461	$240,275,963

1989 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER		OCTOBER		NOVEMBER	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	77,048	$ 15,144,015	95,522	$ 14,140,579	67,828	$ 11,942,281
Boring Machines	46	5,045,649	49	4,088,258	101	4,368,275
Drilling Machines	96	2,544,792	173	3,361,060	93	1,089,244
Gear Cutting Machines	16	3,220,313	74	1,105,796	54	4,985,161
Grinding Machines	656	18,270,938	638	19,102,185	638	14,980,807
Horizontal Lathes NC	366	33,946,089	337	30,842,516	294	26,258,734
Vertical Lathes NC	12	1,799,909	7	999,385	9	1,373,663
Lathes Non-NC	300	4,584,582	559	8,388,713	525	9,281,310
Milling Machines	448	6,954,433	612	11,233,029	615	7,793,252
Machining Centers	323	34,561,766	391	41,245,342	320	32,523,653
Station Type Machines	4	2,526,536	8	2,259,660	10	897,140
Other Metal Cutting	289	11,236,576	373	13,539,820	419	15,050,241
Punching & Shearing	112	6,143,562	178	5,569,235	113	6,516,958
Bending Forming Machines	154	4,509,033	168	6,669,577	183	8,839,591
Presses	134	5,006,807	205	7,367,625	118	6,992,355
Forging Machines	51	3,645,170	220	6,080,592	52	8,160,742
Other Metal Forming	134	13,896,994	1,322	7,845,154	354	9,939,309
TOTALS	80,189	$173,037,164	100,836	$183,838,526	71,726	$170,992,716

1989 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	1ST QUARTER TOTALS		2ND QUARTER TOTALS		3RD QUARTER TOTALS		FIRST SIX MONTH TOTALS	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	120,559	$ 34,259,478	177,642	$ 42,609,814	228,990	$ 45,828,441	298,201	$ 76,869,292
Boring Machines	252	22,482,512	190	8,064,673	202	15,715,447	442	30,547,185
Drilling Machines	443	24,049,019	523	21,961,416	448	16,978,514	966	46,010,435
Gear Cutting Machines	136	8,262,463	261	12,397,010	134	12,796,602	397	20,659,473
Grinding Machines	1,786	56,925,416	2,195	79,763,620	2,134	82,158,829	3,981	136,689,036
Horizontal Lathes NC	1,051	97,478,510	1,025	95,576,414	1,147	100,391,084	2,076	193,054,924
Vertical Lathes NC	28	3,235,245	53	7,155,422	39	8,783,392	81	10,390,667
Lathes Non-NC	1,311	20,363,228	1,334	25,604,677	1,343	19,093,990	2,645	45,967,905
Milling Machines	1,161	35,307,136	1,671	21,721,010	1,645	30,590,960	2,832	57,028,146
Machining Centers	783	88,175,391	937	102,368,473	1,054	113,156,725	1,720	190,543,864
Station Type Machines	48	6,825,601	54	20,273,355	62	22,455,926	102	27,098,956
Other Metal Cutting	1,266	49,258,720	1,265	48,907,878	1,235	43,959,525	2,531	98,166,598
Punching & Shearing	427	19,138,287	457	18,466,581	461	20,803,821	884	37,604,868
Bending Forming Machines	576	21,679,507	916	28,504,110	523	20,403,069	1,492	50,183,617
Presses	582	54,385,364	428	30,202,049	385	37,089,286	1,010	84,587,413
Forging Machines	500	21,116,697	355	28,780,820	334	17,142,825	855	49,897,517
Other Metal Forming	2,157	23,609,724	1,204	31,066,588	557	35,450,243	3,361	54,676,312
TOTALS	133,066	$586,552,298	190,510	$623,423,910	240,693	$642,798,679	323,576	$1,209,976,208

PRODUCT TYPES	NOVEMBER Y-T-D TOTALS		% CHANGE 1ST-2ND QUARTER		% CHANGE 2ND-3RD QUARTER	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	690,541	$ 148,780,593	47.35%	24.37%	28.91%	7.55%
Boring Machines	794	54,719,165	-24.60	-64.13	6.32	94.87
Drilling Machines	1,680	67,439,253	18.06	-8.68	-14.34	-22.69
Gear Cutting Machines	659	39,547,032	91.91	50.04	-48.66	3.22
Grinding Machines	7,391	252,930,857	22.90	40.12	-2.78	3.00
Horizontal Lathes NC	3,854	350,547,258	-2.47	-1.95	11.90	5.04
Vertical Lathes NC	136	21,547,107	89.29	121.17	-26.42	22.75
Lathes Non-NC	5,072	82,731,918	1.75	25.74	0.67	-25.43
Milling Machines	5,704	106,645,387	43.93	-38.48	-1.56	40.84
Machining Centers	3,485	377,469,584	19.67	16.10	12.49	10.54
Station Type Machines	182	52,711,682	12.50	197.02	14.81	10.77
Other Metal Cutting	4,558	170,716,184	-0.08	-0.71	-2.37	-10.12
Punching & Shearing	1,636	70,494,882	7.03	-3.51	0.88	12.66
Bending Forming Machines	2,366	86,095,854	59.03	31.48	-42.90	-28.42
Presses	1,718	136,036,679	-26.46	-44.47	-10.05	22.80
Forging Machines	1,461	81,281,676	-29.00	36.29	-5.92	-40.44
Other Metal Forming	5,594	107,911,018	-44.18	31.58	-53.74	14.11
TOTALS	736,831	$2,207,606,129	43.17	6.29	26.34	3.11

U.S. IMPORTS
Metal Cutting Machine Tools - November 89

RELEASED: January 31, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC	651	54922	58	5553
301030	Traveling wire electro-discharge machines, non-NC	251	16321	20	922
301050	Electro-discharge machines, n.e.c., NC	148	9123	6	1072
301070	Electro-discharge machines, n.e.c., non-NC	347	12166	42	1201
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	2246	183425	231	19615
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	205	28352	16	1552
100035	Horiz. mach. ctrs., ATC	754	124462	43	8248
100045	Mach. ctrs., n.e.c.	280	41230	30	3108
200010	Unit construction mach. (single station transfer), NC	28	4142	9	786
200090	Unit construction mach. (single station transfer), non-NC	15	777	0	0
300010	Multi-station transfer machines, NC	26	19994	0	0
300090	Multi-station transfer machines, non-NC	102	26972	1	111
8458110010	Horiz. lathes, multiple spindle, NC	340	48395	39	2719
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2829	211114	187	14334
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	602	78367	62	8264
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	83	12671	6	941
190030	Horiz. engine or toolroom lathes, non-NC	2792	26619	296	2573
190050	Automatic bar and/or chucking mach., single spindle, non-NC	450	11751	41	486
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	139	6090	52	727
190090	Horiz. lathes, n.e.c., non-NC	869	11623	41	496
911060	Vertical turret lathes, multiple spindle, NC	24	8592	1	189
911080	Vertical turret lathes, n.e.c., NC	42	5896	2	711
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	682	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	68	6376	6	474
991050	Vertical turret lathes, non-NC	64	4543	7	1416
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	758	22106	88	3583
8459100000	Way-type unit head machines	11	827	0	0
210080	Other drilling machines, NC	505	33762	13	437
290040	Drilling machines, multiple spindle, non-NC	109	5629	2	15
290050	Drilling machines, radial, non-NC	410	2548	31	214
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	190	1507	3	39
290090	Drilling machines, n.e.c., non-NC	466	23994	44	385
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	15	3639	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	210	15337	70	1004
310070	Boring-milling mach., n.e.c., NC	58	5706	4	2578
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	39	1589	3	115
390050	Boring-milling macn., excl. horiz. spindle, n.e.c., non-NC	160	5796	4	291
400040	Boring machines, vertical, NC	17	6395	2	167
400050	Boring machines, vertical, non-NC	65	848	10	152
400070	Boring machines, n.e.c., NC	10	2459	0	0
400080	Boring machines, n.e.c., non-NC	220	12951	8	60
510080	Milling machines, knee type, NC	1050	15428	57	1515
590030	Milling machines, knee type, non-NC	3407	29421	430	2788
610080	Milling machines, excl. knee type, n.e.c., NC	480	41095	48	2207
690050	Milling machines, profile, dup., or die sinking, non-NC	105	850	24	109
690070	Milling machines, bed type, non-NC	94	2831	4	222
690090	Milling machines, n.e.c., non-NC	568	17020	52	952
700020	Threading or tapping machines, n.e.c., NC	266	13893	27	1169
700080	Threading or tapping machines, n.e.c., non-NC	275	8818	19	427
8460110080	Flat surface grinding mach., NC	151	11382	12	936
190010	Flat surface grinding mach., recip.-table type, non-NC	1021	11473	101	912
190050	Flat surface grinding mach., n.e.c., non-NC	1668	17937	161	1159
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	499	84518	29	4866
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	408	13624	84	1383
290030	Grinding mach., internal cylindrical, non-NC	139	12060	9	221
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	1117	41616	61	1451
310080	Sharpening machines (tool & cutter grinding), NC	324	3831	15	252
390050	Sharpening machines (tool & cutter grinding), non-NC	638	8494	70	729
400060	Honing or lapping machines, NC	35	6889	3	666
400080	Honing or lapping machines, non-NC	167	5719	12	513
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	48	4477	2	42
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1176	30908	79	1851
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	6	109	0	0
200010	Shaping or slotting machines, NC	32	3406	1	1024
200090	Shaping or slotting machines, non-NC	47	2505	1	42
300060	Broaching machines, NC	12	4425	0	0
300080	Broaching machines, non-NC	44	4344	1	323
401050	Gear hobbers	90	15470	0	0
401070	Gear shapers	13	2184	2	536
401090	Gear cutting machines, n.e.c.	391	1536	43	579
405060	Gear grinding or finishing machines	165	20357	9	3870
500050	Sawing or cutting-off machines, NC	145	3345	21	426
500090	Sawing or cutting-off machines, non-NC	1695	23072	148	2129
9000000001	Metal cutting machine tools, n.e.c.	639	14269	75	762
9800000001	Used or rebuilt machine tools	6381	37498	276	2815
9900000001	Machine tools valued at less than $2,500	661861	89520	65658	8129
	Cutting Total			69012	129545
	Y-T-D Cutting Total	701757	1704024		
	NC Y-T-D Cutting Total	12232	1100182		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - November 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301030	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	4	469	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	283	1	16	0	0	7	369
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	167	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	44	333	2	6	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	28	175	0	0	0	0	1	21
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	83
991050	0	0	0	0	0	0	0	0	4	8
995090	0	0	19	92	2	15	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	2	15
290050	0	0	5	49	1	3	0	0	4	47
290070	0	0	0	0	0	0	0	0	0	0
290090	3	29	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	14	542
310070	0	0	0	0	1	4	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	217
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	9	143
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	10	0	0	2	10
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	7	286
610080	0	0	0	0	0	0	0	0	2	223
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	6	0	0	2	399
700020	0	0	0	0	0	0	0	0	1	3
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	3	47	0	0	1	29	0	0
190010	0	0	0	0	0	0	0	0	2	58
190050	0	0	0	0	3	27	0	0	16	134
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	24	102	0	0	8	144
290030	0	0	1	24	0	0	0	0	0	0
290050	0	0	0	0	1	199	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	11	32	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	2	6	2	78	0	0	16	726
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	2	311	0	0	0	0	0	0	3	39
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	43	681	3	74	35	123
9000000001	1	4	0	0	1	16	14	262	0	0
9800000001	1	4	0	0	132	118	2	13	0	0
9900000001	40	3	6	13	46	40	85	35	4518	746
Month Tot	47	351	109	1021	272	1354	111	1049	4655	4338
Y-T-D Tot	376	4863	968	6937	3479	18464	1489	19941	33459	47519
NC YTD Tot	11	383	40	1254	122	3819	55	3207	155	13893

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - November 89

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	51	4824	0	0	0	0	2	75	0	0
301030	4	239	0	0	0	0	0	0	0	0
301050	5	176	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	11	154	0	0
8457100015	144	13629	1	71	24	1201	0	0	0	0
100025	16	1552	0	0	0	0	0	0	0	0
100035	37	7248	0	0	0	0	0	0	0	0
100045	1	149	4	222	1	51	0	0	0	0
200010	0	0	9	786	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	17	1825	0	0	0	0	0	0	0	0
110030	165	12926	9	612	0	0	0	0	0	0
110050	58	7902	0	0	0	0	0	0	0	0
110090	2	336	0	0	0	0	1	138	0	0
190030	2	89	10	97	29	318	17	125	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	4	142	0	0	0	0	0	0	0	0
911060	1	189	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	290
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	3	305	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	14	1125	21	1203	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	7	324	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	32	0	0	0	0	0	0	0	0
290070	1	18	0	0	0	0	0	0	0	0
290090	14	150	0	0	0	0	18	52	1	6
310010	0	0	0	0	0	0	0	0	0	0
310040	40	136	0	0	0	0	0	0	0	0
310070	1	156	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	18	0	0	0	0	0	0
400040	2	167	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	9
400070	0	0	0	0	0	0	0	0	0	0
400080	4	16	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	17	94	1	4
590030	1	21	0	0	0	0	203	1288	1	28
610080	3	1148	0	0	0	0	3	10[illegible]	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	3	153	0	0	0	0	1	69	0	0
690090	1	72	0	0	0	0	8	159	0	0
700020	26	1166	0	0	0	0	0	0	0	0
700080	12	284	0	0	0	0	0	0	0	0
8460110080	4	371	0	0	0	0	0	0	0	0
190010	26	250	0	0	37	325	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	8
210080	16	2811	0	0	0	0	0	0	0	0
290010	2	191	0	0	0	0	0	0	1	409
290030	2	69	0	0	0	0	0	0	0	0
290050	9	318	0	0	0	0	0	0	0	0
310080	2	168	0	0	0	0	0	0	0	0
390050	7	7[illegible]	0	0	0	0	0	0	1	6
400060	0	0	0	0	0	0	0	0	0	0
400080	5	477	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	4	348	15	101	0	0	1	122	1	8
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	1	1024	0	0	0	0	0	0	0	0
200090	1	42	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	13	311	0	0	0	0	0	0	0	0
500090	23	584	0	0	0	0	0	0	3	9
9000000001	16	246	0	0	0	0	0	0	0	0
9800000001	20	451	0	0	1	3	0	0	2	10
9900000001	4707	623	435	430	0	0	0	0	340	434
Month Tot	5495	64552	508	3844	92	1897	282	2380	354	1220
Y-T-D Tot	61020	966401	5930	25513	813	16188	2001	18077	2666	12099
NC YTD Tot	7788	818096	163	10456	182	9034	524	5506	12	2325

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - November 89

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	5	654	0	0	0	0	0	0	0	0
301030	6	614	10	69	0	0	0	0	0	0
301050	0	0	0	0	1	897	0	0	0	0
301070	6	578	15	271	2	5	3	103	5	91
8457100015	0	0	6	501	44	2461	5	1034	3	249
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	1	145	0	0	5	855	0	0
100045	1	1137	12	710	0	0	2	170	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	111	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	22	894	0	0
110030	0	0	12	736	0	0	0	0	1	60
110050	0	0	0	0	2	195	0	0	0	0
110090	0	0	0	0	0	0	3	468	0	0
190030	0	0	57	507	31	431	0	0	104	668
190050	1	95	40	392	0	0	0	0	0	0
190070	18	466	30	221	4	39	0	0	0	0
190090	0	0	0	0	7	123	0	0	1	35
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	1	421	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	2	85
991050	3	1408	0	0	0	0	0	0	0	0
995090	1	6	0	0	1	37	1	776	29	329
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	6	112	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	11	54	1	3	0	0	8	26
290070	0	0	0	0	0	0	2	21	0	0
290090	0	0	0	0	2	9	1	4	5	136
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	16	326
310070	0	0	0	0	2	2418	0	0	0	0
390040	0	0	0	0	0	0	1	10	2	106
390050	0	0	0	0	0	0	2	56	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	24	0	0	0	0
510080	0	0	20	424	14	525	5	467	0	0
590030	0	0	122	692	40	161	0	0	56	312
610080	0	0	38	693	0	0	1	37	1	3
690050	0	0	24	109	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	2	47	9	40	5	147	2	13	22	67
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	6	138	1	5
8460110080	0	0	0	0	0	0	4	489	0	0
190010	0	0	12	55	0	0	14	198	10	26
190050	0	0	133	881	2	26	1	11	5	71
210080	3	405	0	0	1	19	9	1631	0	0
290010	2	198	0	0	6	119	3	81	38	141
290030	1	59	0	0	0	0	2	34	3	34
290050	5	205	3	26	2	18	27	537	14	147
310080	0	0	2	6	6	13	5	64	0	0
390050	15	171	10	58	15	120	11	270	0	0
400060	0	0	0	0	0	0	3	666	0	0
400080	0	0	0	0	4	12	2	16	1	8
900060	0	0	0	0	0	0	0	0	2	42
900080	1	52	0	0	18	102	17	284	2	25
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	323	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	2	536	0	0
401090	1	571	0	0	2	3	25	3	15	2
405060	2	1539	0	0	0	0	2	1980	0	0
500050	0	0	0	0	0	0	8	115	0	0
500090	2	50	0	0	13	115	11	348	15	145
9000000001	0	0	0	0	1	5	28	183	14	47
9800000001	3	28	4	51	74	878	32	1111	5	148
9900000001	23	22	40251	4518	167	95	310	278	14730	893
Month Tot	102	8417	40822	11158	468	9001	585	14737	15110	4225
Y-T-D Tot	1611	80382	445451	122617	6909	72339	10340	239363	125245	53320
NC YTD Tot	199	29152	1096	28609	670	36154	847	127314	368	10979

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 89

RELEASED: January 31, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	4080	41154	210	4673
8462100030	Headers and upsetters, including cold headers	134	11210	7	563
100050	Forging or die stamping machines, and hammers, n.e.c.	1327	70072	45	7598
210080	Bending, folding, straight. or flat. mach., incl presses, NC	936	33917	65	4283
290030	Press brakes, non-NC	351	9241	41	849
290040	Bending rolls, non-NC	75	1968	3	67
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1004	40970	74	3640
310080	Shearing machines, NC	51	5953	6	724
390050	Shearing machines, non-NC	689	13367	42	633
410080	Punching or notching mach., incl. comb. punch & shear, NC	341	38412	28	4040
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	555	12763	37	1120
910060	Hydraulic presses, NC	35	4968	5	1378
910090	Hydraulic presses, non-NC	544	22635	64	1295
990030	Presses, n.e.c., NC	92	6120	1	3
990040	Presses, mechanical, non-NC	66	23337	0	0
990060	Presses, n.e.c., non-NC	981	78977	48	4316
8463100080	Draw benches for bars, tubes, profiles, wire or the like	39	5009	0	0
200080	Thread rolling machines	59	2934	6	119
300080	Machines for working wire	657	31378	68	3212
900080	Metal forming machine tools, n.e.c.	759	27436	70	1936
9800000002	Used or rebuilt machine tools	893	15388	42	527
9900000002	Machine tools valued at less than $2,500	21406	6374	1852	471
	Forming Total			2714	41448
	Y-T-D Forming Total	35074	503582		
	NC Y-T-D Forming Total	1455	89370		
	Cutting and Forming Totals:				
	Monthly Total			71726	170993
	Y-T-D Total	736831	2207606		
	NC Y-T-D Total	13687	1189552		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	545620	0	40820
2710003070	Quenching or cutting oils	0	74	0	2
8428900010	Industrial robots for lifting, handling, loading or unload	1820	39600	153	2980
8456101010	Laser, light or photon beam for working metal, NC	108	15528	11	2146
101020	Laser, light or photon beam for working metal, non-NC	40	3952	2	407
105000	Laser, light or photon beam for other materials	2066	5027	305	537
201010	Ultrasonic processes for working metal, NC	6	952	0	0
201050	Ultrasonic processes for working metal, non-NC	12	29	0	0
205000	Ultrasonic processes for working other materials	143	634	4	2
8477106010	Injection molding mach., for rubber or oth. thermosetting	939	84422	118	8547
106050	Injection molding mach., for thermoplastics	2439	243627	212	24239
200010	Extruders for rubber or other thermosetting materials	201	21021	24	1916
200050	Extruders for processing thermoplastics	645	37406	47	3495
300000	Blow molding machines	264	38816	24	2683
400000	Vacuum-molding and other thermoforming machines	282	14875	31	184
8479899040	Industrial robots, n.e.c.	22829	126207	1018	15425
908040	Industrial robot parts	0	43731	0	5698
8537100030	Numerical controls for controlling machine tools	12705	48788	1380	5857
9024100000	Machines and appliances for testing metals	0	12528	0	1192
9031100000	Machines for balancing mechanical parts	0	10214	0	2038
300000	Profile projectors	0	4662	0	442
9032810020	Industrial process control instr., hydraulic	194732	2651	26065	336
810060	Industrial process control instr., pneumatic	117867	2901	19144	320

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 89

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	4	645	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	1	177
100050	0	0	0	0	11	196	0	0	2	52
210080	0	0	0	0	3	503	0	0	16	1460
290030	0	0	0	0	16	500	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	28	595	0	0	10	174
310080	3	44	0	0	0	0	0	0	0	0
390050	3	53	0	0	2	48	0	0	6	50
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	6	425	0	0	0	0
910060	0	0	0	0	1	244	0	0	0	0
910090	0	0	4	2	7	147	0	0	2	22
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	19	378	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	9	392	0	0	2	8	2	44	11	989
900080	0	0	0	0	5	35	0	0	3	131
9800000002	1	43	0	0	14	24	1	25	5	33
9900000002	0	0	0	0	237	17	0	0	34	9
Month Tot	16	531	4	2	355	3764	3	69	90	3098
Y-T-D Tot	476	20057	254	4520	4339	45878	126	1551	1126	25849
NC YTD Tot	45	1588	0	0	24	1803	10	235	76	3742
C&F Month	63	882	113	1024	627	5118	114	1118	4745	7436
C&F Y-T-D	852	24920	1222	11457	7818	64343	1615	21492	34585	73368
C&F NC YTD	56	1971	40	1254	146	5622	65	3442	231	17634

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	259	0	26	0	1550	0	284	0	738
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	0	0	13	277	1	850	0	0
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	2	343	7	1084	18	538
106050	0	0	0	0	35	3733	0	0	23	1878
200010	0	0	0	0	0	0	1	57	0	0
200050	0	0	0	0	8	199	3	65	2	149
300000	0	0	0	0	0	0	1	561	0	0
400000	0	0	0	0	3	106	1	2	1	40
8479899040	0	0	0	0	5	91	2	308	1	376
908040	0	0	0	0	0	30	0	9	0	7
8537100030	0	0	0	0	8	3	0	0	0	0
9024100000	0	0	0	0	0	103	0	7	0	76
9031100000	0	0	0	0	0	5	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	0	0	0	0	0	0	0	0	5152	17

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 89

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	202	3103	0	0	0	0	0	0	0	0
8462100030	5	251	0	0	0	0	0	0	0	0
100050	13	6013	5	65	0	0	0	0	0	0
210080	39	1623	0	0	0	0	1	21	2	250
290030	11	220	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	5	95	0	0	0	0	1	11	7	1684
310080	1	167	0	0	0	0	0	0	0	0
390050	8	352	0	0	6	43	0	0	2	17
410080	18	3002	0	0	0	0	0	0	0	0
490050	3	228	0	0	0	0	22	218	1	24
910060	1	71	0	0	0	0	0	0	1	497
910090	24	811	0	0	0	0	0	0	3	3
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	16	3686	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	5	104	0	0
300080	37	1177	0	0	0	0	0	0	0	0
900080	41	937	0	0	0	0	0	0	0	0
9800000002	6	178	0	0	0	0	0	0	0	0
9900000002	102	21	0	0	0	0	0	0	7	4
Month Tot	532	21935	5	65	6	43	29	353	23	2479
Y-T-D Tot	5189	274603	75	394	68	862	584	2769	400	9498
NC YTD Tot	897	48872	0	0	0	0	2	71	9	1238
C&F Month	6027	86487	513	3909	98	1940	311	2733	377	3699
C&F Y-T-D	66209	1241005	6005	25907	881	17051	2585	20846	3066	21597
C&F NC YTD	8685	866968	163	10456	182	9034	526	5577	21	3563

Other Manufacturing Technology

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	15563	0	177	0	640	0	290	0	613
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	48	807	0	0	0	0	0	0	3	157
8456101010	9	1995	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	65	27	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	42	2906	2	129	0	0	0	0	0	0
106050	48	10181	19	429	0	0	0	0	0	0
200010	12	1086	0	0	0	0	1	4	0	0
200050	1	8	0	0	0	0	0	0	0	0
300000	4	688	0	0	0	0	0	0	0	0
400000	1	4	0	0	0	0	0	0	0	0
8479899040	392	12534	0	0	0	0	0	0	17	806
908040	0	3246	0	0	0	0	0	0	0	90
8537100030	1229	5775	0	0	0	0	0	0	0	0
9024100000	0	203	0	0	0	0	0	0	0	9
9031100000	0	1832	0	0	0	12	0	0	0	0
300000	0	138	0	0	0	0	0	0	0	0
9032810020	60	167	4820	18	0	0	0	0	0	0
810060	0	0	0	0	0	0	0	0	1074	201

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 89

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	699	0	0	0	0	1	225	0	0
8462100030	0	0	0	0	0	0	1	134	0	0
100050	2	24	0	0	7	1005	1	133	4	110
210080	0	0	0	0	1	87	2	312	1	27
290030	0	0	0	0	0	0	2	8	12	121
290040	0	0	0	0	0	0	0	0	3	67
290050	3	745	6	47	1	159	2	60	11	72
310080	0	0	0	0	0	0	2	513	0	0
390050	0	0	7	23	6	29	1	7	1	12
410080	1	37	1	23	0	0	8	978	0	0
490050	0	0	0	0	0	0	4	223	1	3
910060	0	0	1	458	0	0	1	108	0	0
910090	0	0	2	3	2	5	7	247	13	54
990030	0	0	0	0	0	0	0	0	1	3
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	1	23	0	0	6	153	6	77
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	1	15	0	0	0	0	0	0
300080	0	0	0	0	0	0	3	462	4	140
900080	1	533	3	29	11	61	5	202	1	7
9800000002	2	4	0	0	7	202	4	7	2	12
9900000002	15	4	690	259	8	2	89	39	670	118
Month Tot	27	2047	712	878	43	1549	139	3811	730	824
Y-T-D Tot	1648	16274	9441	8224	993	14045	1567	62051	8788	17008
NC YTD Tot	32	4669	25	1046	10	568	240	20227	85	5310
C&F Month	129	10463	41534	12037	511	10550	724	18548	15840	5049
C&F Y-T-D	3259	96656	454892	130840	7902	86384	11907	301413	134033	70328
C&F NC YTD	231	33821	1121	29655	680	36723	1087	147541	453	16289

Other Manufacturing Technology

1000000000	0	2665	0	2695	0	2948	0	9638	0	2736
2710003070	0	0	0	0	0	0	0	2	0	0
8428900010	0	0	60	41	9	399	16	209	3	240
8456101010	0	0	0	0	0	0	0	0	2	151
101020	0	0	0	0	1	300	0	0	1	107
105000	1	3	0	0	2	14	230	6	7	487
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	4	2	0	0	0	0	0	0	0	0
8477106010	2	66	5	230	1	12	28	2850	11	388
106050	11	1392	18	1015	1	4	45	5034	12	572
200010	1	100	0	0	3	356	2	194	4	118
200050	1	348	4	278	7	59	20	2372	1	18
300000	0	0	1	31	0	0	18	1403	0	0
400000	0	0	0	0	0	0	25	33	0	0
8479899040	0	0	0	0	7	55	504	899	90	357
908040	0	89	0	1	0	174	0	873	0	1179
8537100030	3	4	0	0	0	0	136	30	4	45
9024100000	0	288	0	0	0	193	0	241	0	73
9031100000	0	0	0	0	0	7	0	46	0	137
300000	0	0	0	0	0	16	0	182	0	106
9032810020	575	11	0	0	1150	8	4	33	19456	98
810060	0	0	1270	24	0	0	11642	74	6	3

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
November 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	155	736	3	29	158	765
Bulgaria	0	0	0	0	0	0
Czechoslovakia	6	90	0	0	6	90
Denmark	17	64	5	71	22	135
East Germany	141	40	0	0	141	40
Finland	1	99	13	146	14	245
Hungary	15	2	0	0	15	2
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	13	103	11	8	24	111
Norway	1	6	2	5	3	11
Poland	24	382	5	6	29	388
Portugal	28	73	12	121	40	194
Romania	0	0	0	0	0	0
USSR	0	0	1	4	1	4
Yugoslavia	27	162	0	0	27	162
Oth Europe	3	34	4	110	7	144
TOTAL	7035	43284	426	14438	7461	57722
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	1	2	56	122	57	124
Oth N & C Am.	0	0	0	0	0	0
TOTAL	273	1356	411	3886	684	5242
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	109	1021	4	2	113	1024
OCEANIA						
Australia	4	79	4	87	8	166
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	4	79	4	87	8	166

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
November 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	14664	2021	607	25	15271	2046
Hong Kong	1	9	2	6	3	15
India	4	36	0	0	4	36
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	4	251	4	56	8	307
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	61590	83769	1868	23008	63458	106777

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	1	36	1	27	2	63
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	1	36	1	27	2	63

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Cutting Machine Tools - November 89

RELEASED: January 31, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	336	4651	7	316
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	30	4765	7	1132
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	8	1256	0	0
100035	Horiz. mach. ctrs., ATC	43	18132	2	1552
100045	Mach. ctrs., n.e.c.	262	17841	27	2450
200010	Unit construction mach. (single station transfer), NC	3	2683	0	0
200090	Unit construction mach. (single station transfer), non-NC	8	4445	1	178
300010	Multi-station transfer machines, NC	8	12731	1	2443
300090	Multi-station transfer machines, non-NC	17	3518	1	118
8458110010	Horiz. lathes, multiple spindle, NC	3	534	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	173	14425	15	1297
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	48	8696	5	744
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	8	1767	0	0
190030	Horiz. engine or toolroom lathes, non-NC	87	1986	4	63
190050	Automatic bar and/or chucking mach., single spindle, non-NC	19	104	1	15
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	39	2762	0	0
190090	Horiz. lathes, n.e.c., non-NC	245	3320	38	477
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	5	863	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	539	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	11	1148	1	155
991050	Vertical turret lathes, non-NC	20	650	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	61	3206	2	94
8459100000	Way-type unit head machines	17	3318	0	0
210080	Other drilling machines, NC	98	7366	3	198
290040	Drilling machines, multiple spindle, non-NC	20	1143	1	23
290050	Drilling machines, radial, non-NC	25	963	0	0
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	68	953	0	0
290090	Drilling machines, n.e.c., non-NC	480	5773	60	388
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	1799	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	642	0	0
310070	Boring-milling mach., n.e.c., NC	32	2437	3	107
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	3	247	2	217
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	103	2100	3	88
400040	Boring machines, vertical, NC	4	1294	0	0
400050	Boring machines, vertical, non-NC	39	1139	7	100
400070	Boring machines, n.e.c., NC	1	1350	0	0
400080	Boring machines, n.e.c., non-NC	53	3318	13	799
510080	Milling machines, knee type, NC	25	1699	0	0
590030	Milling machines, knee type, non-NC	49	2185	4	88
610080	Milling machines, excl. knee type, n.e.c., NC	49	7738	2	100
690050	Milling machines, profile, dup., or die sinking, non-NC	22	1141	1	46
690070	Milling machines, bed type, non-NC	55	7023	0	0
690090	Milling machines, n.e.c., non-NC	299	6622	4	100
700020	Threading or tapping machines, n.e.c., NC	29	1211	0	0
700080	Threading or tapping machines, n.e.c., non-NC	263	6443	12	226
8460110080	Flat surface grinding mach., NC	137	11052	8	920
190010	Flat surface grinding mach., recip.-table type, non-NC	125	1678	0	0
190050	Flat surface grinding mach., n.e.c., non-NC	97	8635	1	85
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	315	24950	3	1046
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	42	4640	2	85
290030	Grinding mach., internal cylindrical, non-NC	56	4598	3	119
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	433	19890	5	314
310080	Sharpening machines (tool & cutter grinding), NC	42	5203	3	534
390050	Sharpening machines (tool & cutter grinding), non-NC	1021	10038	101	669
400060	Honing or lapping machines, NC	2	58	0	0
400080	Honing or lapping machines, non-NC	714	8880	53	666
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	33	3604	1	30
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	558	12964	62	1305
8461100060	Planing machines, NC	6	3712	0	0
100080	Planing machines, non-NC	169	5949	19	481
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	41	1175	2	7
300060	Broaching machines, NC	3	352	0	0
300080	Broaching machines, non-NC	53	2364	3	62
401050	Gear hobbers	62	5786	29	1059
401070	Gear shapers	66	5522	2	69
401090	Gear cutting machines, n.e.c.	71	18059	8	3443
405060	Gear grinding or finishing machines	57	8974	9	411
500050	Sawing or cutting-off machines, NC	37	1907	5	160
500090	Sawing or cutting-off machines, non-NC	960	12744	85	964
9000000001	Metal cutting machine tools, n.e.c.	321	12300	45	801
9800000001	Used or rebuilt machine tools	5626	48844	280	3937
9900000001	Machine tools valued at less than $2,500	38507	13912	2755	1355
	Cutting Total			3711	32038
	Y-T-D Cutting Total	52732	435718		
	NC Y-T-D Cutting Total*	1501	167692		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 89

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	49
8457100015	0	0	0	0	0	0	0	0	5	730
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	2	1552
100045	0	0	0	0	4	432	0	0	1	68
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	1	114	3	283
110050	0	0	0	0	0	0	2	442	3	303
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	3	59
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	67
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	23
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	52	329
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	2	217
390050	0	0	0	0	0	0	0	0	1	35
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	10
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	2	300	1	47
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	2	60
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	92	0	0	3	70
8460110080	0	0	0	0	0	0	0	0	1	380
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	85
210080	1	365	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	1	58
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	17	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	6	53
400060	0	0	0	0	0	0	0	0	0	0
400080	4	70	0	0	2	36	0	0	1	7
900060	0	0	0	0	0	0	0	0	1	30
900080	1	14	0	0	0	0	0	0	7	737
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	10	250	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	2	7	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	3	62
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	4	78
500090	6	21	0	0	0	0	0	0	21	230
9000000001	3	269	0	0	0	0	3	36	10	69
9800000001	7	219	0	0	0	0	0	0	31	427
9900000001	7	4	0	0	0	0	6	4	982	171
Month Tot	**31**	**968**	**0**	**0**	**7**	**559**	**25**	**1162**	**1151**	**6291**
Y-T-D Tot	**778**	**9600**	**58**	**1253**	**190**	**6848**	**545**	**10294**	**23451**	**61442**
NC YTD Tot*	**14**	**1629**	**5**	**646**	**40**	**4467**	**47**	**4081**	**212**	**23853**

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 89

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	1	290	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	211	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	1	52	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	155	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	2	22
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	3	51	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	1	17	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	1	295	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	348	1	333	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	12	0	0	0	0	0	0	10	91
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	9	109	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	1	25	4	235
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	0	0	0	0
9000000001	1	8	0	0	0	0	0	0	0	0
9800000001	0	0	0	0	1	4	0	0	10	1242
9900000001	0	0	0	0	3	5	0	0	0	0
Month Tot	9	1081	12	510	5	300	1	25	26	1589
Y-T-D Tot	565	25032	832	11048	231	10929	102	4155	813	13358
NC YTD Tot*	102	15705	52	7355	7	2010	6	1968	18	1421

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 89

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	3	140	0	0	0	0	2	95	0	0
8457100015	0	0	1	111	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	3	221	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	178	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	118	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	104	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	1	4	0	0
190050	0	0	0	0	0	0	1	15	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	8	100	0	0	0	0	11	182	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	3	19	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	1	42	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	3	40	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	2	100
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	5	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	1	11	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	2	83	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	1	66	0	0	0	0	2	53	0	0
290050	1	196	0	0	0	0	2	20	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	6	37	18	116	0	0	3	12	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	42	2	22	0	0	1	21	8	107
900060	0	0	0	0	0	0	0	0	0	0
900080	1	9	1	11	0	0	3	27	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	31	0	0	0	0	6	65	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	1	51	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	25	421	2	34	0	0	5	27	8	63
9000000001	9	222	8	89	0	0	4	49	0	0
9800000001	0	0	5	178	0	0	153	907	16	40
9900000001	332	209	5	5	0	0	675	429	0	0
Month Tot	394	1928	43	618	0	0	881	2274	34	310
Y-T-D Tot	3285	28328	1588	35176	101	990	7133	57301	445	3869
NC YTD Tot*	142	9065	138	13583	3	135	166	12398	21	2000

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 89

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	11	748	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	11	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	1	36	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	35	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	2	15	0	0
8460110080	0	0	0	0	0	0	1	35	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	82	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	15	100	0	0	1	12	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	2	25	2	17
900060	0	0	0	0	0	0	0	0	0	0
900080	4	36	2	22	8	84	2	35	5	25
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	1	85	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	1	9	2	93	0	0
500050	0	0	0	0	0	0	1	81	0	0
500090	0	0	0	0	0	0	3	35	0	0
9000000001	2	16	0	0	0	0	3	13	0	0
9800000001	1	190	3	4	3	13	0	0	0	0
9900000001	15	11	4	3	17	10	0	0	7	11
Month Tot	38	439	10	110	33	175	28	1116	14	53
Y-T-D Tot	806	7620	235	3107	288	3514	624	8836	108	2196
NC YTD Tot*	34	2396	3	841	17	1649	48	3470	19	793

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 89

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	32
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	5	320	0	0	0	0	0	0	2	450
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	2443	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	7	508	0	0	0	0	0	0	2	237
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	2	18	0	0	0	0	0	0	17	177
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	28	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	3	198
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	1	6
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	29
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	2	53	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	10	452
510080	0	0	0	0	0	0	0	0	0	0
590030	2	39	0	0	0	0	1	32	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	1	46	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	5	38
8460110080	0	0	0	0	0	0	0	0	3	126
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	1	27	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	3	534	0	0
390050	0	0	41	267	0	0	6	37	5	32
400060	0	0	0	0	0	0	0	0	0	0
400080	1	5	12	189	0	0	2	7	3	16
900060	0	0	0	0	0	0	0	0	0	0
900080	2	12	0	0	0	0	7	90	10	94
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	2	135	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	28	974	0	0
401070	0	0	0	0	0	0	0	0	2	69
401090	1	60	2	2496	0	0	4	750	1	137
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	11	102	0	0	0	0	0	0	4	31
9000000001	0	0	0	0	0	0	0	0	2	29
9800000001	9	250	0	0	2	19	12	66	27	378
9900000001	233	61	0	0	9	6	31	20	429	406
Month Tot	277	3917	55	2952	13	78	96	2645	528	2937
Y-T-D Tot	2666	52736	89	11928	302	5487	1722	28410	5775	32259
NC YTD Tot*	176	33623	22	3238	10	701	73	10083	126	10580

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 89

RELEASED: January 31, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	515	8165	60	1073
8462100030	Headers and upsetters, including cold headers	111	18691	45	4945
100050	Forging or die stamping machines, and hammers, n.e.c.	654	18990	65	1576
210080	Bending, folding, straight. or flat. mach., incl presses, NC	300	20391	8	383
290030	Press brakes, non-NC	31	1267	1	8
290040	Bending rolls, non-NC	53	1595	1	16
290050	Bending, folding, straight., or flat., n.e.c., non-NC	569	21118	70	1917
310080	Shearing machines, NC	54	3966	4	167
390050	Shearing machines, non-NC	243	4363	78	833
410080	Punching or notching mach., incl. comb. punch & shear, NC	144	22268	12	1261
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	698	21680	47	1491
910060	Hydraulic presses, NC	83	4765	6	451
910090	Hydraulic presses, non-NC	547	22776	56	800
990030	Presses, n.e.c., NC	54	6386	3	236
990040	Presses, mechanical, non-NC	163	9870	21	1150
990060	Presses, n.e.c., non-NC	591	31768	72	4426
8463100080	Draw benches for bars, tubes, profiles, wire or the like	250	6241	20	1087
3200080	Thread rolling machines	39	2779	6	189
3300080	Machines for working wire	864	29620	69	1684
3900080	Metal forming machine tools, n.e.c.	1925	97402	83	8810
9800000002	Used or rebuilt machine tools	3115	61433	213	3557
9900000002	Machine tools valued at less than $2,500	5496	4068	395	251
	Forming Total			1335	36310
	Y-T-D Forming Total	16499	419602		
	NC Y-T-D Forming Total	635	57776		
	Cutting and Forming Totals:				
	Monthly Total			5046	68348
	Y-T-D Total	69231	855320		
	NC Y-T-D Total*	2136	225468		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	657753	0	58915
2710003070	Quenching or cutting oils	0	11614	0	1469
8428900010	Industrial robots for lifting, handling, loading or unload	771	10667	26	197
8456100000	Laser, light or photon beam for working any material	2216	40419	84	2598
200000	Ultrasonic process for working any material	90	760	0	0
8477106010	Injection molding mach., for rubber or oth. thermosetting	217	20551	31	2767
106050	Injection molding mach., for thermoplastics	372	41364	23	2872
200010	Extruders for rubber or other thermosetting materials	251	10460	7	243
200050	Extruders for processing thermoplastics	870	33716	59	1325
300000	Blow molding machines	461	26506	56	1073
400000	Vacuum-molding and other thermoforming machines	1528	14768	25	423
8479899040	Industrial robots, n.e.c.	2239	30119	190	1839
900040	Industrial robot parts	0	13139	0	2024
8537100030	Numerical controls for controlling machine tools	8917	37747	186	2852
9024100000	Machines and appliances for testing metals	0	68700	0	5914
9031100000	Machines for balancing mechanical parts	0	20041	0	971
300000	Profile projectors	0	7342	0	540
9032810040	Industrial process control instr., hydraulic or pneumatic	659465	42515	92296	4309

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 89

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	10	111	0	0	0	0	0	0	9	778
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	10	208
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	5	25	0	0	0	0	0	0	30	664
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	3	89
410080	0	0	0	0	0	0	0	0	8	801
490050	6	70	1	127	0	0	0	0	13	113
910060	0	0	0	0	0	0	1	32	0	0
910090	4	43	0	0	0	0	0	0	4	79
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	8	385	7	400
990060	1	19	0	0	0	0	0	0	7	145
8463100080	1	34	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	1	25
300080	0	0	1	6	0	0	30	752	1	34
900080	2	203	0	0	0	0	0	0	9	65
9800000002	5	20	0	0	3	399	29	97	11	75
9900000002	14	5	0	0	0	0	0	0	141	98
Month Tot	48	530	2	134	3	399	68	1265	254	3572
Y-T-D Tot	548	6821	109	815	138	2788	181	7803	2738	40131
NC YTD Tot	27	1357	0	0	0	0	11	732	138	13453
C&F Month	79	1498	2	134	10	958	93	2428	1405	9863
C&F Y-T-D	1326	16421	167	2069	328	9636	726	18097	26189	101573
C&F NC YTD*	41	2985	5	646	40	4467	58	4814	350	37307

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1234	0	155	0	422	0	821	0	6604
2710003070	0	15	0	0	0	0	0	0	0	114
8428900010	0	0	0	0	0	0	0	0	2	68
8456100000	1	13	0	0	0	0	0	0	2	95
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	2	119
106050	0	0	2	143	0	0	0	0	1	190
200010	0	0	0	0	0	0	0	0	1	56
200050	4	108	0	0	0	0	0	0	15	479
300000	0	0	0	0	0	0	0	0	3	49
400000	0	0	0	0	0	0	0	0	16	256
8479899040	1	98	0	0	0	0	0	0	6	379
8479900040	0	0	0	8	0	0	0	0	0	99
8537100030	1	13	1	13	2	23	0	0	23	342
9024100000	0	80	0	0	0	66	0	161	0	380
9031100000	0	26	0	0	0	0	0	0	0	342
300000	0	0	0	0	0	0	0	0	0	38
9032810040	615	47	511	26	1852	95	2010	103	13414	415

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 89

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	4	25	4	42	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	10	112	0	0	0	0
210080	0	0	0	0	0	0	1	67	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	7	226	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	12	0	0	0	0	0	0	0	0
910060	0	0	1	285	0	0	0	0	0	0
910090	0	0	1	11	2	24	0	0	0	0
990030	1	109	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	15	0	0	7	319
8463100080	0	0	1	13	0	0	0	0	0	0
200080	0	0	0	0	1	32	0	0	0	0
300080	0	0	2	36	1	13	0	0	2	62
900080	1	750	6	166	0	0	0	0	1	8
9800000002	0	0	2	31	0	0	0	0	1	6
9900000002	0	0	4	3	0	0	0	0	15	10
Month Tot	3	870	28	796	19	237	1	67	26	406
Y-T-D Tot	245	10963	415	8244	130	8834	29	234	219	7624
NC YTD Tot	23	977	6	691	4	1067	2	82	6	2782
C&F Month	12	1951	40	1306	24	537	2	92	52	1995
C&F Y-T-D	810	35995	1247	19291	361	19763	131	4389	1032	20982
C&F NC YTD*	125	16682	58	8046	11	3077	8	2050	24	4202

Other Manufacturing Technology

1000000000	0	6335	0	1238	0	515	0	30	0	1984
2710003070	0	0	0	5	0	8	0	100	0	5
8428900010	0	0	4	42	0	0	0	0	0	0
8456100000	0	0	2	33	0	0	1	33	2	59
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	1	45	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
8479899040	0	0	0	0	0	0	0	0	21	152
900040	0	0	0	48	0	0	0	0	0	12
8537100030	0	0	22	324	0	0	0	0	3	35
9024100000	0	212	0	83	0	392	0	0	0	51
9031100000	0	0	0	116	0	0	0	0	0	10
300000	0	21	0	0	0	0	0	0	0	71
9032810040	129	62	2434	132	50	8	0	0	6341	392

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 89

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	2	25	0	0
8462100030	11	1527	28	1475	0	0	0	0	0	0
100050	4	65	13	512	0	0	7	102	0	0
210080	0	0	1	31	0	0	3	150	0	0
290030	0	0	0	0	0	0	1	8	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	4	67	6	618	0	0	5	84	0	0
310080	0	0	0	0	0	0	4	167	0	0
390050	0	0	55	360	0	0	4	46	5	74
410080	0	0	0	0	0	0	1	99	0	0
490050	3	137	0	0	0	0	6	257	0	0
910060	2	78	0	0	0	0	0	0	0	0
910090	2	94	2	30	0	0	36	469	1	10
990030	1	6	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	9	201	16	456	0	0	15	1740	0	0
8463100080	0	0	0	0	0	0	9	128	0	0
200080	0	0	0	0	0	0	1	18	0	0
300080	0	0	0	0	0	0	6	108	0	0
900080	5	547	3	3533	2	43	13	82	1	14
9800000002	1	15	1	795	0	0	70	603	2	22
9900000002	0	0	0	0	0	0	43	36	20	12
Month Tot	42	2736	125	7810	2	43	226	4124	29	131
Y-T-D Tot	904	42568	965	60163	29	1540	3107	39192	395	6381
NC YTD Tot	102	8409	52	4674	7	1011	58	4107	23	2820
C&F Month	436	4664	168	8428	2	43	1107	6399	63	441
C&F Y-T-D	4189	70896	2553	95339	130	2531	10240	96493	840	10251
C&F NC YTD*	244	17475	190	18257	10	1146	224	16505	44	4819

Other Manufacturing Technology

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	7991	0	1464	0	336	0	4059	0	296
2710003070	0	55	0	22	0	0	0	442	0	13
8428900010	0	0	0	0	0	0	0	0	0	0
8456100000	22	735	10	232	3	68	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	2	235	2	436	0	0	22	1766	1	71
106050	0	0	6	454	0	0	4	227	0	0
200010	0	0	0	0	0	0	3	126	0	0
200050	1	8	22	211	0	0	10	228	0	0
300000	0	0	0	0	0	0	5	4	0	0
400000	0	0	0	0	0	0	3	47	0	0
8479899040	5	30	13	76	0	0	0	0	0	0
900040	0	115	0	0	0	0	0	3	0	8
8537100030	1	13	6	81	1	9	0	0	3	82
9024100000	0	1586	0	596	0	30	0	345	0	8
9031100000	0	7	0	15	0	9	0	24	0	5
300000	0	156	0	5	0	0	0	4	0	0
9032810040	1587	140	2207	153	0	0	3516	116	10854	572

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 89

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	23	0	0	2	36	1	17
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	3	13	0	0	1	20	0	0	1	13
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	2	7	1	52	0	0	1	79	0	0
910060	0	0	0	0	0	0	1	14	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	22	0	0	0	0
8463100080	0	0	2	16	0	0	0	0	0	0
200080	0	0	3	114	0	0	0	0	0	0
300080	1	31	2	79	0	0	3	75	2	50
900080	0	0	0	0	4	15	2	1246	0	0
9800000002	0	0	0	0	5	5	0	0	1	147
9900000002	0	0	0	0	0	0	0	0	0	0
Month Tot	6	52	9	284	11	62	9	1449	5	226
Y-T-D Tot	188	7114	111	4052	58	1399	239	18742	92	3682
NC YTD Tot	15	2546	2	138	8	375	14	2562	6	456
C&F Month	44	491	19	394	44	236	37	2566	19	279
C&F Y-T-D	994	14734	346	7159	346	4912	863	27578	200	5879
C&F NC YTD*	49	4942	5	979	25	2025	62	6032	25	1250

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	901	0	757	0	2007	0	2009	0	225
2710003070	0	12	0	10	0	0	0	161	0	8
8428900010	16	43	0	0	0	0	0	0	0	0
8456100000	1	15	1	18	3	90	9	270	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	3	333	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	5	3	0	0	2	26	0	0
400000	1	16	0	0	0	0	0	0	0	0
8479899040	29	179	0	0	3	62	0	0	0	0
900040	0	6	0	0	0	0	0	0	0	0
8537100030	3	44	2	25	0	0	1	8	3	42
9024100000	0	77	0	37	0	9	0	127	0	14
9031100000	0	31	0	6	0	0	0	73	0	0
300000	0	118	0	0	0	0	0	3	0	0
9032810040	1773	109	1010	54	1126	81	9161	477	15890	48

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 89

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	29	74	1	10	1	8
8462100030	0	0	0	0	0	0	6	1944	0	0
100050	3	254	0	0	4	73	4	52	6	123
210080	0	0	0	0	0	0	0	0	3	135
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	16
290050	0	0	0	0	0	0	1	8	7	176
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	11	264
410080	2	291	0	0	0	0	0	0	1	71
490050	1	14	0	0	0	0	5	461	7	164
910060	0	0	0	0	0	0	1	43	0	0
910090	0	0	0	0	0	0	1	9	3	32
990030	1	120	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	6	365	0	0
990060	6	513	0	0	2	53	4	786	3	157
8463100080	2	10	0	0	0	0	0	0	5	886
200080	0	0	0	0	0	0	0	0	0	0
300080	6	121	0	0	0	0	2	47	10	270
900080	4	1364	0	0	0	0	11	330	19	443
9800000002	7	92	0	0	24	379	4	76	47	797
9900000002	76	39	0	0	0	0	0	0	82	48
Month Tot	108	2817	0	0	59	579	46	4131	206	3590
Y-T-D Tot	1219	38701	6	977	244	8413	851	26327	3339	66092
NC YTD Tot	59	3462	3	176	3	89	9	1025	57	4784
C&F Month	385	6734	55	2952	72	657	142	6776	734	6527
C&F Y-T-D	3885	91437	95	12904	546	13901	2573	54737	9114	98351
C&F NC YTD*	235	37086	25	3415	13	790	82	11108	183	15364

Other Manufacturing Technology

1000000000	0	7950	0	194	0	567	0	3243	0	7577
2710003070	0	0	0	0	0	13	0	5	0	482
8428900010	4	43	0	0	0	0	0	0	0	0
8456100000	8	444	0	0	1	20	3	110	15	363
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	2	141	0	0
106050	3	174	0	0	0	0	3	1323	1	28
200010	0	0	0	0	0	0	0	0	3	61
200050	4	88	0	0	0	0	0	0	3	204
300000	0	0	0	0	0	0	1	27	39	919
400000	3	16	0	0	0	0	0	0	2	88
8479899040	3	20	0	0	0	0	101	695	8	150
900040	0	180	0	0	0	0	0	1444	0	100
8537100030	77	1249	0	0	0	0	13	179	24	370
9024100000	0	420	0	19	0	51	0	403	0	767
9031100000	0	31	0	0	0	13	0	39	0	225
300000	0	12	0	0	0	0	0	0	0	113
9032810040	5359	432	493	25	224	17	7455	438	4285	367

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
November 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	0	0	15	11	15	11
East Germany	0	0	0	0	0	0
Finland	2	10	3	86	5	96
Greece	0	0	2	810	2	810
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	0	0	5	41	5	41
Luxembourg	0	0	0	0	0	0
Norway	0	0	1	73	1	73
Poland	0	0	2	60	2	60
Portugal	0	0	0	0	0	0
Romania	0	0	0	0	0	0
Sweden	9	39	3	178	12	217
Turkey	0	0	0	0	0	0
Yugoslavia	0	0	0	0	0	0
Oth Europe	1	26	0	0	1	26
TOTAL	562	12842	293	10418	855	23259
NORTH AND CENTRAL AMERICA						
Bahamas	69	45	1	16	70	61
Barbados	0	0	0	0	0	0
Belize	2	13	0	0	2	13
Bermuda	1	8	0	0	1	8
Costa Rica	128	33	0	0	128	33
Dominican Rep	1	32	20	119	21	151
El Salvador	0	0	0	0	0	0
Guatemala	0	0	2	12	2	12
Haiti	0	0	2	25	2	25
Honduras	0	0	2	124	2	124
Jamaica	0	0	1	6	1	6
Panama	0	0	1	141	1	141
Trinidad	0	0	2	38	2	38
Oth N & C Am.	2	65	4	95	6	160
TOTAL	2235	8761	515	8271	2750	17031
SOUTH AMERICA						
Argentina	1	9	0	0	1	9
Bolivia	0	0	0	0	0	0
Chile	3	75	0	0	3	75
Colombia	7	33	1	23	8	56
Ecuador	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	2	547	20	565	22	1112
Uruguay	4	30	0	0	4	30
Oth South Am.	0	0	0	0	0	0
TOTAL	55	1934	148	2432	203	4366
OCEANIA						
New Zealand	8	40	10	151	18	191
Oth Oceania	1	6	0	0	1	6
TOTAL	40	1014	58	681	98	1695

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
November 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	226	552	76	148	302	700
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	4	129	6	174	10	303
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	0	0	2	136	2	136
Philippines	2	214	0	0	2	214
Qatar	1	3	0	0	1	3
Saudi Arabia	34	487	14	349	48	836
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	0	0	6	150	6	150
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	799	6945	316	14448	1115	21393
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	0	0	0	0	0	0
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	1	19	1	19
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	10	452	1	4	11	456
South Africa	9	68	3	37	12	105
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	1	23	0	0	1	23
Oth Africa	0	0	0	0	0	0
TOTAL	20	542	5	61	25	603

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICS

No. 28-90 February 28, 1990

U.S. FOREIGN TRADE -- DECEMBER 1989

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY

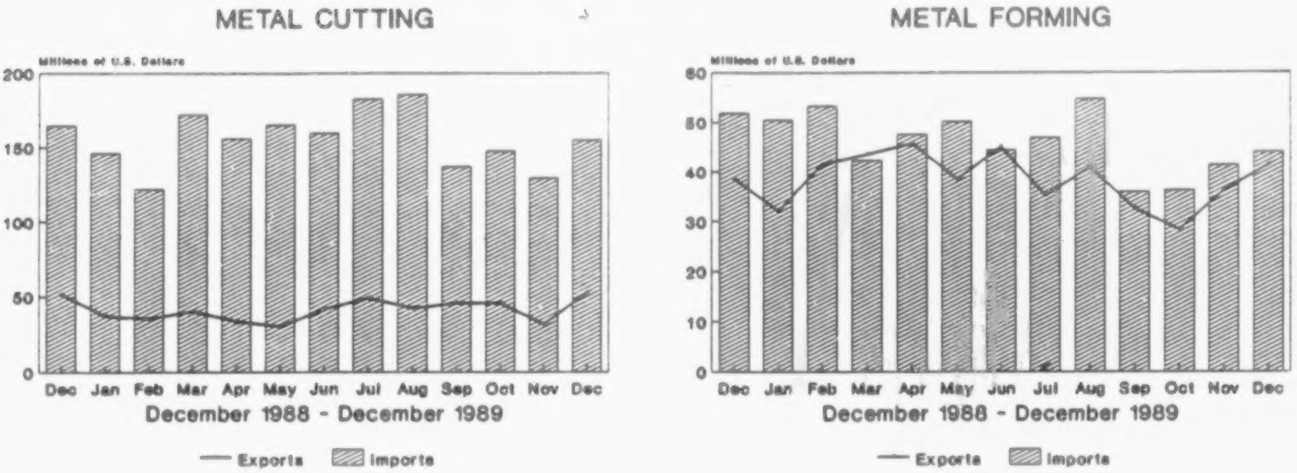
(Millions of U.S. Dollars)

	Dec. 1989	Nov. 1989	% Change Nov.-Dec.	Year to Date '89	Year to Date '88	% Change '88-'89
METAL CUTTING MACHINE TOOLS						
Imports	$155.1	$129.5	19.8%	$1,859.1	$1,543.3	20.5%
Exports	$ 53.1	$ 32.0	65.9%	$ 488.8	$ 443.7	10.2%
Balance	($102.0)	($ 97.5)	4.6%	($1,370.3)	($1,099.6)	24.6%
METAL FORMING MACHINE TOOLS						
Imports	$ 44.0	$ 41.4	6.3%	$ 547.5	$ 515.4	6.2%
Exports	$ 41.4	$ 36.3	14.0%	$ 461.0	$ 324.6	42.0%
Balance	($ 2.6)	($ 5.1)	(49.0%)	($ 86.5)	($ 190.8)	(54.7%)
MACHINE TOOL TOTAL						
Imports	$199.0	$171.0	16.4%	$2,406.6	$2,058.7	16.9%
Exports	$ 94.5	$ 68.3	38.4%	$ 949.8	$ 768.3	23.6%
Balance	($104.5)	($102.7)	1.8%	($1,456.8	($1,290.4)	12.9%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Imports	$111.4	$ 95.3	16.9%	$1,301.0	NA	NA
Exports	$ 22.7	$ 15.6	45.5%	$ 248.2	NA	NA
Balance	($ 88.7)	($ 79.7)	11.3%	($1,052.8)	NA	NA
OTHER MANUFACTURING TECHNOLOGY						
Imports	$111.3	$119.3	(6.7%)	$1,414.6	NA	NA
Exports	$ 95.8	$ 90.3	6.1%	$1,184.0	NA	NA
Balance	($ 15.5)	($ 29.0)	(46.6%)	($ 230.6)	NA	NA

Note: Numerically controlled machine tools includes both metal cutting and metal forming machines, and is included in the respective totals. NA = not available; ( ) denotes negative; individual items may not add up to totals due to rounding.

During December 1989, exports of machine tools jumped 38% compared with November to $94.5 million, the highest monthly total since June 1981. Total exports for 1989 were $949.8 million, the second highest total ever (behind 1981's $1,028 million) and 24% higher than 1988. Machine tool imports rose 16% in December compared with November to $199.0 million, for a 1989 total of $2.4 billion, the highest total ever and 17% higher than 1988. Exports of NC machines in December rose 46% to $22.7 million, while imports of NC machines rose 17% to $111.4 million. The overall machine tool trade deficit in 1989 was $1.46 billion, 13% higher than 1988.

U.S. MONTHLY TRADE IN MACHINE TOOLS


METAL CUTTING

METAL FORMING

METAL CUTTING

Exports

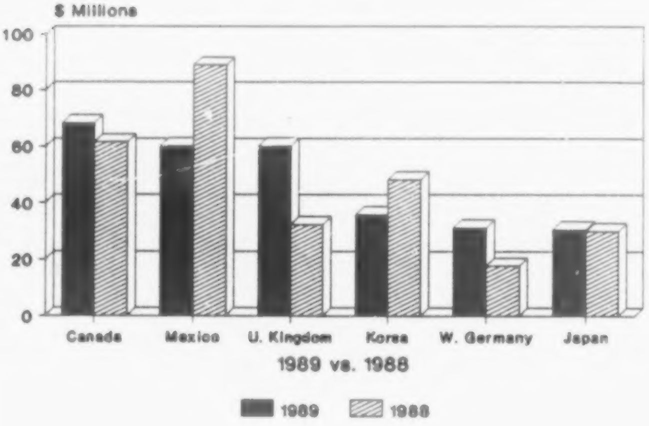
Exports of metal cutting machine tools rose 66% in December compared with November to $53.1 million, the highest monthly total since August 1981. The top metal cutting export market in December was the Soviet Union, with exports of seven gear cutting machines valued at $9.0 million. Exports of gear cutting machines were $15.5 million in December, a record monthly high even if the shipment to the Soviet Union is not included. Other major U.S. metal cutting export markets in December included the United Kingdom ($7.4 million), Canada ($6.9 million), and Mexico ($2.9 million).

For all of 1989, U.S. metal cutting machine tool exports reached $488.8 million, a 10% increase over 1988. The largest U.S. export market for metal cutting machines was Canada at $68.4 million, 11% higher than 1988. Mexico was next at $60.2 million, 32% lower than 1988, followed by the United Kingdom ($60.2 million, up 86%), South Korea ($36.0 million, down 25%), West Germany ($31.3 million, up 76%) and Japan ($30.7 million, up 2%). U.S. metal cutting machine tool exports to the Soviet Union in 1989 were $20.9 million, making the U.S.S.R. the eighth largest export market. By comparison, from 1982-1988 combined U.S. metal cutting exports to the U.S.S.R. were $13.9 million. Other high growth export markets in 1989 were Indonesia ($4.2 million, up 896% over 1988), Australia ($11.2 million, up 210%), Thailand ($2.6 million, up 127%), the Netherlands ($4.6 million, up 60%) and France ($11.8 million, up 55%).

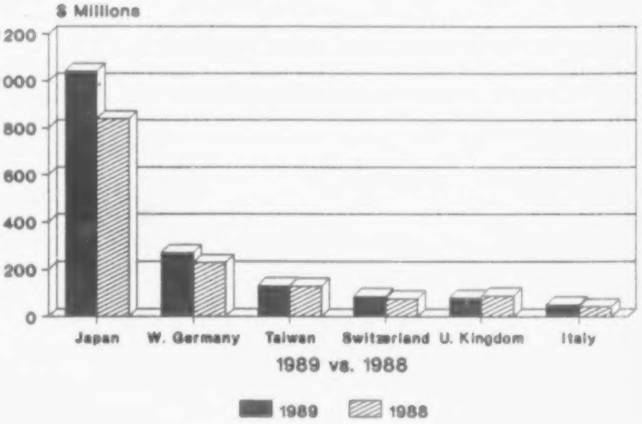
The largest category of U.S. metal cutting exports in 1989 was grinding machines, at $128.4 million. Mexico was the largest U.S. export market in this category at $15.6 million, followed by West Germany ($15.6 million), Canada ($14.8 million), and the United Kingdom ($14.4 million). Exports of gear cutting machines in 1989 were $53.9 million, including $17.2 million to the Soviet Union, $5.9 million to India and $5.8 million to Italy. Machining center exports were $45.7 million -- the largest markets were Canada ($13.7 million), Korea ($6.1 million) and China ($4.3 million). Exports of used or rebuilt machines in 1989 were $53.9 million, and included $12.6 million to Mexico, $6.5 million to Canada and $5.4 million to China. The United Kingdom was by far the largest export market for station type machines at $19.4 million, followed by Mexico at $5.8 million. Total exports of station type machines in 1989 were $37.1 million.

METAL CUTTING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

Metal cutting machine tool imports in December rose 20% compared with November to $155.1 million. Imports from Japan rebounded to $76.2 million from $64.6 million in November, while imports from West Germany ($31.9 million) were more than double November's total. Imports of NC vertical lathes in December were $9.2 million, easily the highest monthly total of 1989, while imports of boring machines ($2.4 million) were the lowest of any month in 1989.

For all of 1989, U.S. metal cutting machine tool imports were a record $1.86 billion, 21% higher than 1988 and 12% higher than the previous record of $1.65 billion set in 1986. In 1989, Japan supplied $1.0 billion, or 56% of the total, while West Germany supplied $271.2 million, or 15%. Japan's and West Germany's totals were 24% and 19% higher, respectively, than 1988 levels. Other large import sources were Taiwan ($132 million, up 3% over 1988), Switzerland ($87.0 million, up 14%), the United Kingdom ($80.7 million, down 9%) and Italy ($52.1 million, up 21%). Imports from Korea in 1989 were $27.7 million, 92% higher than 1988, and imports from France were $22.0 million, 77% higher than 1988.

During 1989, the largest category of metal cutting machine tool imports was machining centers, at $410.5 million. Of the total, Japan supplied 73%, or $299.1 million, while West Germany and the United Kingdom supplied $48.6 million and $19.8 million, respectively. Total U.S. imports of NC horizontal lathes in 1989 were $377.9 million, of which Japan supplied $330.5 million, or 87%. Of the total 1989 imports of grinding machines -- $273.6 million -- Japan, West Germany and Switzerland supplied $119.3 million, $65.5 million and $25.2 million, respectively. U.S. imports of milling machines totalled $112.5 million in 1989, including $32.4 million from Japan, $18.7 million from Taiwan, $16.8 million from West Germany and $12.5 million from Spain. Finally, U.S. imports of non-NC lathes were $90.3 million in 1989, and included $14.7 million from Japan, $12.6 million from Korea, $11.8 million from Taiwan and $10.2 million from the United Kingdom.

METAL FORMING

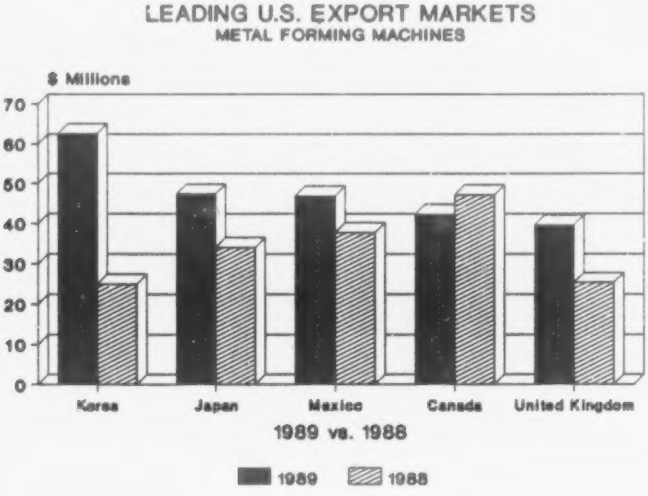
Exports

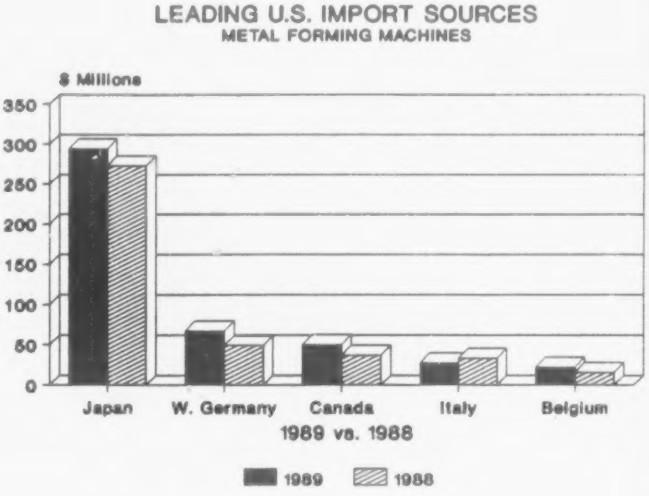
U.S. exports of metal forming machine tools rose 14% to $41.4 million from November to December. The largest metal forming export market in December was Mexico, at $7.8 million, up from $4.1 million in November, followed by Japan ($4.9 million) and West Germany ($3.9 million). Exports of presses in December were $16.8 million, almost double the previous 1989 monthly high set in October. Exports of punching and shearing machines rose 37% in December over November to $5.1 million.

U.S. metal forming machine tool exports for all of 1989 totalled $461.0 million, the highest annual total ever and 42% higher than 1988. The largest U.S. market for metal forming machines in 1989 was Korea at $62.6 million, 150% higher than 1988. Exports to Korea included punching and shearing machines ($6.2 million), forging machines ($6.2 million), bending and forming machines ($6.0 million), presses ($5.7 million), and other metal forming machines ($28.0 million). Metal forming exports to Japan in 1989 were $47.5 million (39% higher than 1988), and exports to Mexico were $47.0 million, 24% higher than 1988. U.S. metal forming exports to India in 1989 were $8.9 million, 280% higher than 1988, and exports to Singapore were $8.2 million, 228% higher than 1988.

Exports of presses totalled $92.4 million in 1989: the major markets were Mexico ($17.7 million), West Germany ($11.6 million), the United Kingdom ($9.6 million), and Canada ($6.3 million). The largest U.S. export market for forging machines in 1989 was Japan at $11.6 million; total forging machine exports in 1989 were $41.1 million. Japan was also the largest U.S. export market for bending and forming machines, taking $7.3 million of the $46.7 million total. Canada was next at $6.9 million, followed by Korea ($6.0 million) and Mexico ($5.2 million).

METAL FORMING MACHINE TOOL FOREIGN TRADE





Imports

U.S. imports of metal forming machine tools rose 6% in December to $44.0 million, the third consecutive monthly increase. Imports of forging machines rose 45% over November to $11.8 million; imports of used or rebuilt metal forming machines quadrupled in December to $2.1 million.

Total metal forming imports in 1989 were $547.5 million, 6% higher than the 1988 total. Eighteen percent of U.S. metal forming imports in 1989 were NC machines. Japan supplied $294.5 million, up 8% over 1988 and equal to 54% of the total. Imports from West Germany ($67.5 million) and Canada ($50.6 million) were 37% and 36% higher, respectively, than in 1988.

U.S. imports of presses in 1989 were $142.8 million, of which Japan, Canada and West Germany supplied $87.3 million, $18.9 million and $11.6 million, respectively. Imports of bending and forming machines totalled $94.4 million in 1989; once again, Japan, Canada and West Germany were the top three suppliers, with 72% of the import market between them. Japan supplied 73%, or $68.2 million, of the $93.1 million in U.S. forging machine imports in 1989, and 39% of the punching and shearing import total of $75.3 million.

OTHER MANUFACTURING TECHNOLOGY

Exports

U.S. exports of other manufacturing technology rose 6% in December to $95.8 million. Exports of machine tool parts and accessories fell 4% to $56.6 million; exports of industrial robots and parts more than doubled to $8.5 million. Injection molding machine exports were $6.8 million in December, up 21% over November, while exports of extruders for processing thermoplastics, rubber or other thermosetting materials doubled to $3.2 million.

For all of 1989, U.S. exports of other manufacturing technology totalled $1.2 billion; $714.3 million was machine tool parts and accessories. The largest export markets for parts and accessories were Canada, $115.7 million; the United Kingdom, $85.3 million; Japan, $68.1 million; West Germany, $59.3 million; and Mexico, $56.8 million. Exports of industrial robots and parts were $62.4 million in 1989. The largest robot markets were Canada, West Germany and the United Kingdom at $13.5 million, $10.6 million and $7.1 million, respectively. Exports of numerical controls were $40.8 million in 1989, including $14.5 million to the United Kingdom, $5.2 million to West Germany and $4.1 million to France.

Imports

U.S. imports of other manufacturing technology fell 7% in December compared with November to $111.3 million. Imports of machine tool parts and accessories fell 17% to $33.8 million in December; imports of industrial robots and parts fell 21% to $19.1 million. Imports in December of injection molding machines fell 7% to $30.5 million, including $5.6 million from Canada, while imports of extruders rose more than 80% to $9.8 million in December.

Total U.S. imports of other manufacturing technology in 1989 were $1.4 billion. Imports of machine tool parts and accessories were $579.4 million, 51% of which came from either Japan or West Germany, while imports of industrial robots and robot parts were $228.6 million, 71% of which was supplied by Japan. Imports of injection molding machines were $358.6 million in 1989, of which 48% was Japanese, 16% was West German and 14% was imported from Canada. Japan supplied 96% of the U.S. imports of numerical controls in 1989, which totalled $5[illegible].9 million.

1989 EXPORTS

METAL CUTTING

COUNTRY	DECEMBER	NOVEMBER	% CHANGE	DEC YTD '89	DEC YTD '88	% CHANGE
Canada	$6,926,829	$6,290,851	10.11%	$68,368,987	$61,523,000	11.13%
Mexico	2,949,027	2,274,362	29.66	60,249,643	88,980,000	-32.29
U.K.	7,414,920	3,916,637	89.32	60,150,561	32,360,000	85.88
Korea	774,940	618,187	25.36	35,951,389	48,161,000	-25.35
West Germany	2,860,936	2,645,111	8.16	31,271,252	17,777,000	75.91
Japan	2,334,070	1,927,877	21.07	30,662,254	29,976,000	2.29
China	4,018,965	1,080,727	271.88	29,050,641	27,105,000	7.18
USSR	8,996,603	2,952,491	204.71	20,924,509	1,217,000	1,619.35
Italy	1,406,343	1,589,266	-11.51	14,764,203	13,135,000	12.40
Brazil	1,520,666	1,162,446	30.82	11,815,123	10,742,000	9.99
France	766,576	510,098	50.28	11,814,394	7,602,000	55.41
India	674,996	299,945	125.04	11,604,131	8,339,000	39.15
Australia	1,553,818	967,813	60.55	11,154,135	3,596,000	210.18
Taiwan	799,808	1,116,328	-28.35	9,635,915	13,024,000	-26.01
Singapore	265,422	438,764	-39.51	7,885,332	6,776,000	16.37
Belgium	777,099	559,273	38.95	7,625,552	6,063,000	25.77
Venezuela	43,963	78,259	-43.82	5,531,090	15,169,000	-63.54
Netherlands	728,701	309,539	135.41	4,598,127	2,879,000	59.71
Indonesia	0	25,047	-100.00	4,154,910	417,000	896.38
Switzerland	492,134	174,564	181.92	4,005,926	2,947,000	35.93
Spain	48,706	110,032	-55.73	3,156,013	2,076,000	52.02
Thailand	438,873	52,968	728.56	2,635,100	1,159,000	127.36
Austria	20,984	0	NA	1,274,483	821,000	55.24
Malaysia	9,805	0	NA	999,925	525,000	90.46

METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	% CHANGE	DEC YTD '89	DEC YTD '88	% CHANGE
Korea	$2,446,473	$7,809,649	-68.67%	$62,609,518	$25,005,000	150.39%
Japan	4,911,252	2,736,337	79.48	47,479,555	34,151,000	39.03
Mexico	7,834,307	4,124,198	89.96	47,026,289	37,856,000	24.22
Canada	2,264,788	3,572,162	-36.60	42,395,988	47,197,000	-10.17
U.K.	1,002,637	2,817,211	-64.41	39,703,866	25,359,000	56.57
West Germany	3,897,759	4,130,727	-5.64	30,224,894	22,630,000	33.56
Taiwan	3,830,518	1,449,196	164.32	22,572,731	12,600,000	79.15
China	736,528	870,438	-15.38	11,699,617	10,274,000	13.88
France	2,391,986	796,134	200.45	10,635,544	9,229,000	15.24
Italy	2,232,131	405,793	450.07	9,856,330	8,135,000	21.16
Brazil	1,562,179	1,265,480	23.45	9,365,132	10,270,000	-8.81
India	84,641	237,252	-64.32	8,918,760	2,346,000	280.17
Venezuela	13,725	578,531	-97.63	8,427,204	10,002,000	-15.74
Singapore	1,079,187	51,840	1,981.77	8,193,420	2,501,000	227.61
Australia	272,975	530,485	-48.54	7,093,745	10,697,000	-33.68
Netherlands	531,392	131,321	304.65	6,912,616	4,570,000	51.26
Belgium	1,999,604	398,547	401.72	4,787,224	1,535,000	211.87
Spain	212,914	283,656	-24.94	4,264,711	5,154,000	-17.25
Thailand	213,913	226,346	-5.49	3,896,330	4,547,000	-14.31
Malaysia	82,449	42,950	91.97	1,622,927	3,054,000	-46.86
Switzerland	147,086	61,823	137.91	1,545,762	1,732,000	-10.75
USSR	0	0	NA	976,510	116,000	741.82
Austria	0	133,699	-100.00	815,189	499,000	63.36
Indonesia	0	66,585	-100.00	234,046	511,000	-54.20

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	% CHANGE	DEC YTD '89	DEC YTD '88	% CHANGE
Canada	$ 9,191,617	$9,853,013	-6.81%	$110,764,975	$108,720,000	1.88%
Mexico	10,783,334	6,398,560	68.53	107,275,932	126,836,000	-15.42
U.K.	8,417,557	6,733,848	25.00	99,854,427	57,719,000	73.00
Korea	3,221,413	8,427,836	-61.78	98,560,907	73,166,000	34.71
Japan	7,245,322	4,664,214	55.34	78,141,809	64,127,000	21.85
West Germany	6,758,695	6,775,838	-0.25	61,496,146	40,407,000	52.19
China	4,755,493	1,951,165	143.73	40,750,258	37,379,000	9.02
Taiwan	4,630,326	2,565,524	80.48	32,208,646	25,624,000	25.70
Italy	3,638,474	1,995,059	82.37	24,620,533	21,270,000	15.75
France	3,158,562	1,306,232	141.81	22,449,938	16,831,000	33.38
USSR	8,996,603	2,952,491	204.71	21,901,019	1,333,000	1,542.99
Brazil	3,082,845	2,427,926	26.97	21,180,255	21,012,000	0.80
India	759,637	537,197	41.41	20,522,891	10,685,000	92.07
Australia	1,826,793	1,498,298	21.92	18,247,880	14,293,000	27.67
Singapore	1,344,609	490,604	174.07	16,078,752	9,277,000	73.32
Venezuela	57,688	656,790	-91.22	13,958,294	25,171,000	-44.55
Belgium	2,776,703	957,820	189.90	12,412,776	7,598,000	63.37
Netherlands	1,260,093	440,860	185.83	11,510,743	7,449,000	54.53
Spain	261,620	393,688	-33.55	7,420,724	7,230,000	2.64
Thailand	652,786	279,314	133.71	6,531,430	5,706,000	14.47
Switzerland	639,220	236,387	170.41	5,551,688	4,679,000	18.65
Indonesia	0	91,632	-100.00	4,388,956	928,000	372.95
Malaysia	92,254	42,950	114.79	2,622,852	3,579,000	-26.72
Austria	20,984	133,699	-84.31	2,089,672	1,320,000	58.31

1989 IMPORTS

METAL CUTTING

COUNTRY	DECEMBER	NOVEMBER	% CHANGE	DEC YTD '89	DEC YTD '88	% CHANGE
Japan	$76,228,360	$64,551,805	18.09%	$1,042,629,826	$839,245,000	24.23%
West Germany	31,880,812	14,737,062	116.33	271,243,476	228,142,000	18.89
Taiwan	9,503,279	11,158,485	-14.83	132,119,795	128,836,000	2.55
Switzerland	6,589,288	8,416,616	-21.71	86,971,215	76,421,000	13.81
U.K.	8,333,372	9,001,185	-7.42	80,672,504	88,690,000	-9.04
Italy	4,557,030	4,337,582	5.06	52,075,831	43,043,000	20.99
Korea	2,148,718	3,844,149	-44.10	27,662,004	14,409,000	91.98
France	2,026,446	1,049,408	93.10	21,967,785	12,443,000	76.55
Canada	2,359,196	1,354,192	74.21	20,823,626	19,251,000	8.17
Spain	1,458,837	2,380,152	-38.71	19,536,291	18,099,000	7.94
Singapore	1,709,746	1,897,430	-9.89	17,897,826	10,562,000	69.45
Sweden	1,539,880	1,219,739	26.25	13,638,837	10,343,000	31.87
Brazil	479,825	1,021,469	-53.03	7,416,472	6,310,000	17.54
Belgium	629,175	350,815	79.35	5,492,144	2,997,000	83.25

METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	% CHANGE	DEC YTD '89	DEC YTD '88	% CHANGE
Japan	$19,926,101	$21,935,258	-9.16%	$294,529,172	$273,206,000	7.80%
West Germany	5,434,129	3,811,149	42.59	67,484,629	49,328,000	36.81
Canada	4,770,478	3,763,602	26.75	50,648,709	37,356,000	35.58
Italy	1,969,237	3,098,358	-36.44	27,818,260	33,530,000	-17.03
Belgium	2,619,401	531,041	393.26	22,676,544	15,844,000	43.12
Switzerland	1,232,758	2,046,656	-39.77	17,506,339	18,454,000	-5.14
U.K.	2,747,854	1,548,730	77.43	16,792,646	17,114,000	-1.88
Sweden	1,381,029	2,478,855	-44.29	10,878,900	15,497,000	-29.80
Taiwan	1,131,376	878,298	28.81	9,355,056	6,652,000	40.64
Brazil	0	2,170	-100.00	4,520,020	23,282,000	-80.59
Spain	324,784	353,304	-8.07	3,093,689	4,022,000	-23.08
France	245,236	68,853	256.17	1,796,023	4,589,000	-60.86
Singapore	0	42,615	-100.00	862,449	1,571,000	-45.10
Korea	240,695	65,189	269.23	634,683	459,000	38.28

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	% CHANGE	DEC YTD '89	DEC YTD '88	% CHANGE
Japan	$96,154,461	$86,487,063	11.18%	$1,337,158,998	$1,112,451,000	20.20%
West Germany	37,314,941	18,548,211	101.18	338,728,105	277,470,000	22.08
Taiwan	10,634,655	12,036,783	-11.65	141,474,851	135,488,000	4.42
Switzerland	7,822,046	10,463,272	-25.24	104,477,554	94,875,000	10.12
U.K.	11,081,226	10,549,915	5.04	97,465,150	105,804,000	-7.88
Italy	6,526,267	7,435,940	-12.23	79,894,091	76,573,000	4.34
Canada	7,129,674	5,117,794	39.31	71,472,335	56,607,000	26.26
Korea	2,389,413	3,909,338	-38.88	28,296,687	14,868,000	90.32
Belgium	3,248,576	881,856	268.38	28,168,688	18,841,000	49.51
Sweden	2,920,909	3,698,594	-21.03	24,517,737	25,840,000	-5.12
France	2,271,682	1,118,261	103.14	23,763,808	17,032,000	39.52
Spain	1,783,621	2,733,456	-34.75	22,629,980	22,121,000	2.30
Singapore	1,709,746	1,940,045	-11.87	18,760,275	12,133,000	54.62
Brazil	479,825	1,023,639	-53.13	11,936,492	29,592,000	-59.66

1989 U.S. EXPORTS

BY PRODUCT GROUPS

	JANUARY		FEBRUARY		MARCH		APRIL	
PRODUCT TYPES	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	4,001	$ 9,651,663	3,732	$12,688,394	6,637	$13,092,251	5,141	$12,327,284
Boring Machines	74	638,181	26	2,545,592	18	3,222,763	17	950,038
Drilling Machines	18	895,459	17	696,798	15	1,308,988	27	1,314,012
Gear Cutting Machines	36	5,448,728	21	2,086,374	9	2,158,882	6	849,917
Grinding Machines	230	7,834,870	294	8,944,628	504	11,634,092	317	9,161,095
Horizontal Lathes NC	16	2,019,282	5	461,768	31	2,496,490	35	3,253,292
Vertical Lathes NC	2	366,000	0	0	2	112,569	0	0
Lathes Non-NC	16	465,926	56	1,275,656	59	1,492,297	43	1,613,647
Milling Machines	66	4,903,870	89	3,273,726	30	2,019,223	46	1,805,710
Machining Centers	21	3,086,413	22	5,831,777	14	1,491,145	28	3,534,392
Station Type Machines	4	1,498,740	5	2,392,333	9	3,248,541	5	929,962
Other Metal Cutting	257	4,584,770	265	2,822,073	210	5,030,489	161	4,263,085
Punching & Shearing	63	2,957,497	127	7,132,924	110	5,651,176	105	3,794,853
Bending & Forming Machines	84	3,433,140	104	3,074,999	94	4,555,647	107	4,294,467
Presses	133	5,590,097	115	5,951,499	119	5,662,008	116	6,281,018
Forging Machines	46	3,249,295	74	3,224,180	73	2,223,430	38	4,463,652
Other Metal Forming	322	12,540,612	266	14,907,382	527	18,723,205	467	20,849,780
TOTAL	5,389	$69,164,543	5,218	$77,310,103	8,461	$84,123,196	6,659	$79,686,204

	MAY		JUNE		JULY		AUGUST	
PRODUCT TYPES	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	4,512	$10,318,184	3,556	$17,348,522	4,243	$14,523,609	5,859	$10,954,511
Boring Machines	10	1,811,008	29	1,671,316	4	75,744	26	1,370,063
Drilling Machines	39	2,487,530	33	1,653,649	24	1,428,421	42	1,575,597
Gear Cutting Machines	17	1,579,602	22	4,722,265	55	5,208,745	18	3,423,837
Grinding Machines	227	5,612,584	321	12,488,637	392	19,501,133	349	12,629,954
Horizontal Lathes NC	13	1,205,227	26	3,018,171	13	1,512,085	12	1,014,932
Vertical Lathes NC	1	80,170	5	738,521	2	367,521	3	368,610
Lathes Non-NC	37	1,373,016	41	776,438	59	1,779,338	39	1,110,067
Milling Machines	35	2,375,933	37	1,408,096	74	4,101,114	39	1,503,000
Machining Centers	28	3,340,264	14	1,650,056	23	4,190,223	34	3,690,718
Station Type Machines	7	1,176,710	0	0	1	45,678	6	5,025,800
Other Metal Cutting	167	3,352,346	226	8,360,124	130	6,166,339	178	4,880,157
Punching & Shearing	74	5,837,129	120	4,665,277	105	4,248,102	118	6,391,378
Bending & Forming Machines	91	7,421,103	72	4,269,185	84	2,346,841	80	4,172,832
Presses	172	5,741,420	143	8,063,327	97	8,025,313	118	8,418,897
Forging Machines	63	3,165,982	74	4,247,697	49	2,299,970	77	2,971,894
Other Metal Forming	568	12,219,709	293	11,931,694	252	8,625,468	277	13,789,261
TOTAL	6,061	$69,097,917	5,012	$87,012,975	5,607	$84,445,644	7,275	$83,291,508

1989 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	6,537	$10,153,000	4,883	$ 8,099,179	3,643	$ 9,099,729	3,122	$ 9,216,500
Boring Machines	7	455,605	4	274,938	28	1,311,525	8	1,268,274
Drilling Machines	74	1,667,003	338	2,562,057	64	608,955	62	731,257
Gear Cutting Machines	8	2,758,714	16	5,122,064	48	4,982,715	38	15,541,997
Grinding Machines	234	10,589,426	465	12,020,573	242	5,773,319	381	12,184,907
Horizontal Lathes NC	32	5,329,579	29	3,070,304	20	2,041,092	14	1,767,718
Vertical Lathes NC	0	0	2	360,933	1	155,000	2	299,840
Lathes Non-NC	37	530,811	39	961,735	45	648,656	47	1,070,817
Milling Machines	30	1,466,905	42	3,215,606	11	334,380	22	838,137
Machining Centers	75	7,466,254	48	2,579,397	36	5,134,324	37	3,741,018
Station Type Machines	7	4,126,477	6	5,512,170	3	2,739,207	3	5,017,482
Other Metal Cutting	201	5,348,111	245	4,983,895	178	3,016,142	222	4,519,217
Punching & Shearing	122	4,957,288	54	2,888,326	141	3,752,463	128	5,143,232
Bending & Forming Machines	63	3,118,880	94	5,361,439	80	2,322,597	66	2,336,980
Presses	123	6,266,003	144	8,502,848	158	7,063,268	206	16,835,790
Forging Machines	109	3,380,224	52	1,933,851	110	6,521,456	37	3,439,617
Other Metal Forming	208	11,018,013	175	6,758,040	238	12,843,187	221	10,516,660
TOTAL	7,867	$78,632,293	6,636	$74,207,355	5,046	$68,348,015	4,616	$94,469,443

1989 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	DECEMBER Y-T-D TOTALS		FIRST SIX MONTH TOTALS		SECOND SIX MONTH TOTALS	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	55,866	$137,472,826	27,579	$ 75,426,298	28,287	$ 62,046,528
Boring Machines	251	15,595,047	174	10,838,898	77	4,756,149
Drilling Machines	753	16,929,726	149	8,356,436	604	8,573,290
Gear Cutting Machines	294	53,883,840	111	16,845,768	183	37,038,072
Grinding Machines	3,956	128,375,218	1,893	55,675,906	2,063	72,699,312
Horizontal Lathes NC	246	27,189,940	126	12,454,230	120	14,735,710
Vertical Lathes NC	20	2,849,164	10	1,297,260	10	1,551,904
Lathes Non-NC	518	13,098,404	252	6,996,980	266	6,101,424
Milling Machines	521	27,245,700	303	15,786,558	218	11,459,142
Machining Centers	380	45,735,981	127	18,934,047	253	26,801,934
Station Type Machines	56	31,713,100	30	9,246,286	26	22,466,814
Other Metal Cutting	2,440	57,326,748	1,286	28,412,887	1,154	28,913,861
Punching & Shearing	1,267	57,419,645	599	30,038,856	668	27,380,789
Bending & Forming Machines	1,019	46,708,110	552	27,048,541	467	19,659,569
Presses	1,644	92,401,488	798	37,289,369	846	55,112,119
Forging Machines	802	41,121,248	368	20,574,236	434	20,547,012
Other Metal Forming	3,814	154,723,011	2,443	91,172,382	1,371	63,550,629
TOTAL	73,847	$949,789,196	36,800	$466,394,938	37,047	$483,394,258

PRODUCT TYPES	1ST QUARTER TOTALS		2ND QUARTER TOTALS		3RD QUARTER TOTALS		4TH QUARTER TOTALS	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	14,370	$ 35,432,308	13,209	$ 39,993,990	16,639	$ 35,631,120	11,648	$ 26,415,408
Boring Machines	118	6,406,536	56	4,432,362	37	1,901,412	40	2,854,737
Drilling Machines	50	2,901,245	99	5,455,191	140	4,671,021	464	3,902,269
Gear Cutting Machines	66	9,693,984	45	7,151,784	81	11,391,296	102	25,646,776
Grinding Machines	1,028	28,413,590	865	27,262,316	975	42,720,513	1,088	29,978,799
Horizontal Lathes NC	52	4,977,540	74	7,476,690	57	7,856,596	63	6,879,114
Vertical Lathes NC	4	478,569	6	818,691	5	736,131	5	815,773
Lathes Non-NC	131	3,233,879	121	3,763,101	135	3,420,216	131	2,681,208
Milling Machines	185	10,196,819	118	5,589,739	143	7,071,019	75	4,388,123
Machining Centers	57	10,409,335	70	8,524,712	132	15,347,195	121	11,454,739
Station Type Machines	18	7,139,614	12	2,106,672	14	9,197,955	12	13,268,859
Other Metal Cutting	732	12,437,332	554	15,975,555	509	16,394,607	645	12,519,254
Punching & Shearing	300	15,741,597	299	14,297,259	345	15,596,768	323	11,784,021
Bending & Forming Machines	282	11,063,786	270	15,984,755	227	9,638,553	240	10,021,016
Presses	367	17,203,604	431	20,085,765	338	22,710,213	508	32,401,906
Forging Machines	193	8,696,905	175	11,877,331	235	8,652,088	199	11,894,924
Other Metal Forming	1,115	46,171,199	1,328	45,001,183	737	33,432,742	634	30,117,887
TOTAL	19,068	$230,597,842	17,732	$235,797,096	20,749	$246,369,445	16,298	$237,024,813

1989 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE 1ST-2ND QUARTER		% CHANGE 2ND-3RD QUARTER		% CHANGE 3RD-4TH QUARTER	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	-8.08%	12.87%	25.97%	-10.91%	-30.00%	-25.86%
Boring Machines	-52.54	-30.81	-33.93	-57.10	8.11	50.14
Drilling Machines	98.00	88.03	41.41	-14.37	231.43	-16.46
Gear Cutting Machines	-31.82	-26.22	80.00	59.28	25.93	125.14
Grinding Machines	-15.86	-4.05	12.72	56.70	11.59	-29.83
Horizontal Lathes NC	42.31	50.21	-22.97	5.08	10.53	-12.44
Vertical Lathes NC	50.00	71.07	-16.67	-10.08	0.00	10.82
Lathes Non-NC	-7.63	16.36	11.57	-9.11	-2.96	-21.61
Milling Machines	-36.22	-45.18	21.19	26.50	-47.55	-37.94
Machining Centers	22.81	-18.11	88.57	80.03	-8.33	-25.36
Station Type Machines	-33.33	-70.49	16.67	336.61	-14.29	44.26
Other Metal Cutting	-24.32	28.45	-8.12	2.62	26.72	-23.64
Punching & Shearing	-0.33	-9.18	15.38	9.09	-6.38	-24.45
Bending & Forming Machines	-4.26	44.48	-15.93	-39.70	5.73	3.97
Presses	17.44	16.75	-21.58	13.07	50.30	42.68
Forging Machines	-9.33	36.57	34.29	-27.15	-15.32	37.48
Other Metal Forming	19.10	-2.53	-44.50	-25.71	-13.98	-9.91
TOTAL	-7.01	2.25	17.01	4.48	-21.45	-3.79

1989 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY UNITS	JANUARY VALUE	FEBRUARY UNITS	FEBRUARY VALUE	MARCH UNITS	MARCH VALUE	APRIL UNITS	APRIL VALUE
Used & Rebuilt & Under $2,500	40,903	$ 10,113,655	28,520	$ 12,085,985	51,136	$ 12,059,838	53,299	$ 12,791,125
Boring Machines	89	7,646,136	74	5,470,749	89	9,365,627	62	2,622,059
Drilling Machines	161	10,160,328	120	7,005,035	162	6,883,656	173	9,029,944
Gear Cutting Machines	46	4,358,306	23	2,222,717	67	1,681,440	24	1,627,946
Grinding Machines	560	13,559,864	606	14,282,507	620	29,083,045	718	27,286,695
Horizontal Lathes NC	366	33,687,505	321	27,833,919	364	35,957,086	296	26,315,649
Vertical Lathes NC	13	1,199,802	10	1,610,472	5	424,971	19	1,935,853
Lathes Non-NC	560	7,822,799	352	5,663,166	399	6,877,263	484	7,059,595
Milling Machines	410	9,722,408	316	8,491,551	435	17,093,177	604	9,709,582
Machining Centers	315	34,929,013	211	25,193,738	257	28,052,640	318	30,857,850
Station Type Machines	11	1,801,730	30	1,648,674	7	3,375,197	16	11,494,843
Other Metal Cutting	311	12,467,388	355	12,764,694	600	24,026,638	392	16,945,014
Punching & Shearing	161	7,053,551	153	5,222,761	113	6,861,975	128	4,809,075
Bending Forming Machines	183	8,366,797	194	7,673,335	199	5,639,375	181	9,461,859
Presses	239	11,386,574	189	25,984,776	154	17,014,014	111	9,382,988
Forging Machines	236	13,641,470	131	5,000,422	133	2,474,805	95	13,948,522
Other Metal Forming	129	8,724,784	939	7,345,113	1,089	7,539,827	471	8,290,431
TOTAL	44,693	$196,642,110	32,544	$175,499,614	55,829	$214,410,574	57,391	$203,569,030

PRODUCT TYPES	MAY UNITS	MAY VALUE	JUNE UNITS	JUNE VALUE	JULY UNITS	JULY VALUE	AUGUST UNITS	AUGUST VALUE
Used & Rebuilt & Under $2,500	55,283	$ 15,897,111	69,060	$ 13,921,578	77,910	$ 13,718,883	74,032	$ 16,965,543
Boring Machines	56	2,914,892	72	2,527,722	81	7,293,496	75	3,376,302
Drilling Machines	198	8,206,249	152	4,725,223	104	5,203,287	248	9,230,435
Gear Cutting Machines	92	5,184,412	145	5,584,652	61	3,683,843	57	5,892,446
Grinding Machines	703	28,618,882	774	23,858,043	649	31,278,466	829	32,609,425
Horizontal Lathes NC	370	37,390,197	359	31,870,568	429	33,974,512	352	32,470,483
Vertical Lathes NC	21	3,192,456	13	2,027,113	11	5,265,883	16	1,717,600
Lathes Non-NC	406	7,181,037	444	11,364,045	503	7,584,504	540	6,924,904
Milling Machines	533	6,525,800	534	5,485,628	556	12,482,002	641	11,154,525
Machining Centers	293	31,263,982	326	40,246,641	335	38,239,581	396	40,355,378
Station Type Machines	19	4,417,149	19	4,361,363	26	10,264,530	32	9,664,860
Other Metal Cutting	450	16,125,897	423	15,836,967	442	15,809,995	504	16,912,954
Punching & Shearing	103	4,809,616	226	8,847,890	243	9,209,241	106	5,451,018
Bending Forming Machines	535	9,628,758	200	9,413,493	216	7,023,861	153	8,870,175
Presses	161	12,083,555	156	8,735,506	103	8,456,517	148	23,625,962
Forging Machines	155	9,299,745	105	5,532,553	189	9,336,801	94	4,160,854
Other Metal Forming	545	13,071,111	188	9,705,046	185	10,660,150	238	10,893,099
TOTAL	59,923	$215,810,849	73,196	$204,044,031	82,043	$229,485,552	78,461	$240,275,963

1989 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	77,048	$ 15,144,015	95,522	$ 14,140,579	67,828	$ 11,942,281	57,233	$11,578,118
Boring Machines	46	5,045,649	49	4,088,258	101	4,368,275	33	2,375,161
Drilling Machines	96	2,544,792	173	3,361,060	93	1,089,244	101	6,664,794
Gear Cutting Machines	16	3,220,313	74	1,105,796	54	4,985,161	89	5,929,864
Grinding Machines	656	18,270,938	638	19,102,185	638	14,980,807	714	20,669,640
Horizontal Lathes NC	366	33,946,089	337	30,842,516	294	26,258,734	285	27,365,253
Vertical Lathes NC	12	1,799,909	7	999,385	9	1,373,663	20	9,235,558
Lathes Non-NC	300	4,584,582	559	8,388,713	525	9,281,310	487	7,560,417
Milling Machines	448	6,954,433	612	11,233,029	615	7,793,252	478	5,821,671
Machining Centers	323	34,561,766	391	41,245,342	320	32,523,653	325	33,036,088
Station Type Machines	4	2,526,536	8	2,259,660	10	897,140	11	2,291,631
Other Metal Cutting	289	11,236,576	373	13,539,820	419	15,050,241	392	25,077,045
Punching & Shearing	112	6,143,562	178	5,569,235	113	6,516,958	164	4,771,936
Bending Forming Machines	154	4,509,033	168	6,669,577	183	8,839,591	147	8,320,878
Presses	134	5,006,807	205	7,367,625	118	6,992,355	253	6,745,625
Forging Machines	51	3,645,170	220	6,080,592	52	8,160,742	93	11,837,768
Other Metal Forming	134	13,896,994	1,322	7,845,154	354	9,939,309	153	9,761,291
TOTALS	80,189	$173,037,164	100,836	$183,838,526	71,726	$170,992,716	60,978	$199,042,738

1989 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	DECEMBER Y-T D TOTALS		FIRST SIX MONTHS TOTALS		SECOND SIX MONTH TOTALS	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	747,774	$ 160,358,711	298,201	$ 76,869,292	449,573	$ 83,489,419
Boring Machines	827	57,094,326	442	30,547,185	385	26,547,141
Drilling Machines	1,781	74,104,047	966	46,010,435	815	28,093,612
Gear Cutting Machines	748	45,476,896	397	20,659,473	351	24,817,423
Grinding Machines	8,105	273,600,497	3,981	136,689,036	4,124	136,911,461
Horizontal Lathes NC	4,139	377,912,511	2,076	193,054,924	2,063	184,857,587
Vertical Lathes NC	156	30,782,665	81	10,390,667	75	20,391,998
Lathes Non-NC	5,559	90,292,335	2,645	45,967,905	2,914	44,324,430
Milling Machines	6,182	112,467,058	2,832	57,028,146	3,350	55,438,912
Machining Centers	3,810	410,505,672	1,720	190,543,864	2,090	219,961,808
Station Type Machines	193	55,003,313	102	27,098,956	91	27,904,357
Other Metal Cutting	4,950	195,793,229	2,531	98,166,598	2,419	97,626,631
Punching & Shearing	1,800	75,266,818	884	37,604,868	916	37,661,950
Bending Forming Machines	2,513	94,416,732	1,492	50,183,617	1,021	44,233,115
Presses	1,971	142,782,304	1,010	84,587,413	961	58,194,891
Forging Machines	1,554	93,119,444	855	49,897,517	699	43,221,927
Other Metal Forming	5,747	117,672,309	3,361	54,676,312	2,386	62,995,997
TOTALS	797,809	$2,406,648,867	323,576	$1,209,976,208	474,233	$1,196,672,659

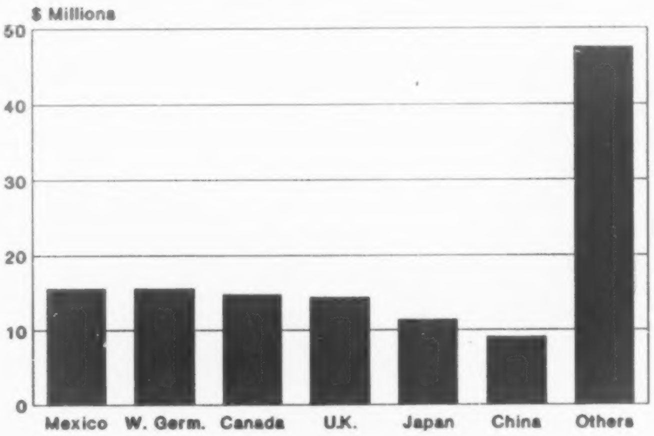
PRODUCT TYPES	1ST QUARTER TOTALS		2ND QUARTER TOTALS		3RD QUARTER TOTALS		4TH QUARTER TOTALS	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	120,559	$ 34,259,478	177,642	$ 42,609,814	228,990	$ 45,828,441	220,583	$ 37,660,978
Boring Machines	252	22,482,512	190	8,064,673	202	15,715,447	183	10,831,694
Drilling Machines	443	24,049,019	523	21,961,416	448	16,978,514	367	11,115,098
Gear Cutting Machines	136	8,262,463	261	12,397,010	134	12,796,602	217	12,020,821
Grinding Machines	1,786	56,925,416	2,195	79,763,620	2,134	82,158,829	1,990	54,752,632
Horizontal Lathes NC	1,051	97,478,510	1,025	95,576,414	1,147	100,391,084	916	84,466,503
Vertical Lathes NC	28	3,235,245	53	7,155,422	39	8,783,392	36	11,608,606
Lathes Non-NC	1,311	20,363,228	1,334	25,604,677	1,343	19,093,990	1,571	25,230,440
Milling Machines	1,161	35,307,136	1,671	21,721,010	1,645	30,590,960	1,705	24,847,952
Machining Centers	783	88,175,391	937	102,368,473	1,054	113,156,725	1,036	106,805,083
Station Type Machines	48	6,825,601	54	20,273,355	62	22,455,926	29	5,448,431
Other Metal Cutting	1,266	49,258,720	1,265	48,907,878	1,235	43,959,525	1,184	53,667,106
Punching & Shearing	427	19,138,287	457	18,466,581	461	20,803,821	455	16,858,129
Bending Forming Machines	576	21,679,507	916	28,504,110	523	20,403,069	498	23,830,046
Presses	582	54,385,364	428	30,202,049	385	37,089,286	576	21,105,605
Forging Machines	500	21,116,697	355	28,780,820	334	17,142,825	365	26,079,102
Other Metal Forming	2,157	23,609,724	1,204	31,066,588	557	35,450,243	1,829	27,545,754
TOTALS	133,066	$586,552,298	190,510	$623,423,910	240,693	$642,798,679	233,540	$553,873,980

1989 U.S. IMPORTS

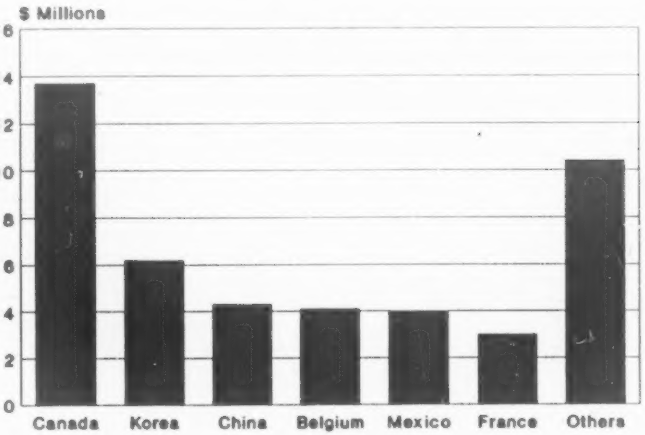
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE 1ST-2ND QUARTER		% CHANGE 2ND-3RD QUARTER		% CHANGE 3RD-4TH QUARTER	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	47.35%	24.37%	28.91%	7.55%	-3.67%	-17.82%
Boring Machines	-24.60	-64.13	6.32	94.87	-9.41	-31.08
Drilling Machines	18.06	-8.68	-14.34	-22.69	-18.08	-34.53
Gear Cutting Machines	91.91	50.04	-48.66	3.22	61.94	-6.06
Grinding Machines	22.90	40.12	-2.78	3.00	-6.75	-33.36
Horizontal Lathes NC	-2.47	-1.95	11.90	5.04	-20.14	-15.86
Vertical Lathes NC	89.29	121.17	-26.42	22.75	-7.69	32.17
Lathes Non-NC	1.75	25.74	0.67	-25.43	16.98	32.14
Milling Machines	43.93	-38.48	-1.56	40.84	3.65	-18.77
Machining Centers	19.67	16.10	12.49	10.54	-1.71	-5.61
Station Type Machines	12.50	197.02	14.81	10.77	-53.23	-75.74
Other Metal Cutting	-0.08	-0.71	-2.37	-10.12	-4.13	22.08
Punching & Shearing	7.03	-3.51	0.88	12.66	-1.30	-18.97
Bending Forming Machines	59.03	31.48	-42.90	-28.42	-4.78	16.80
Presses	-26.46	-44.47	-10.05	22.80	49.61	-43.10
Forging Machines	-29.00	36.29	-5.92	-40.44	9.28	52.13
Other Metal Forming	-44.18	31.58	-53.74	14.11	228.37	-22.30
TOTALS	43.17	6.29	26.34	3.11	-2.97	-13.83

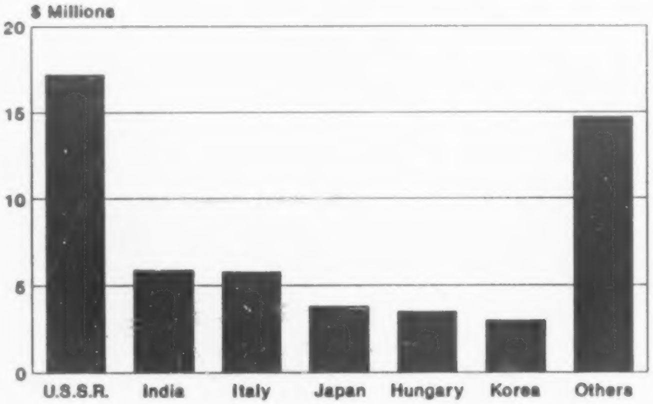
U.S. Exports of Grinding Machines 1989
(Total: $128.4 million)



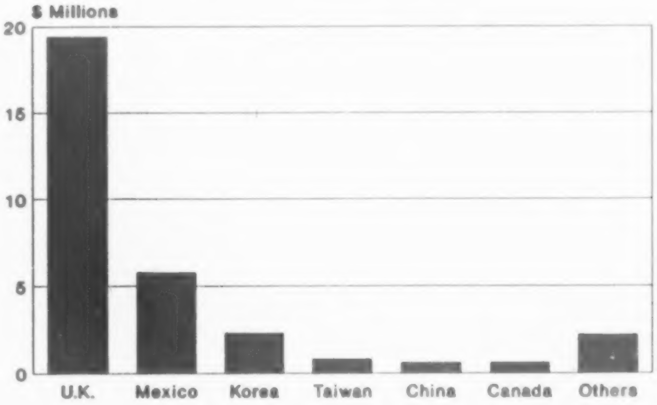
U.S. Exports of Machining Centers 1989
(Total: $45.7 million)



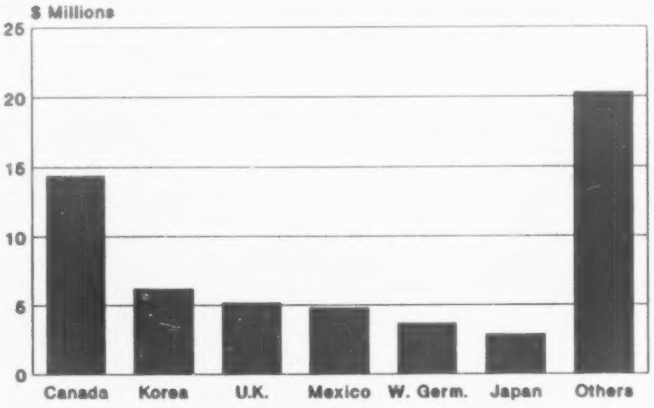
U.S. Exports
of Gear Cutting Machines 1989
(Total: $53.9 million)



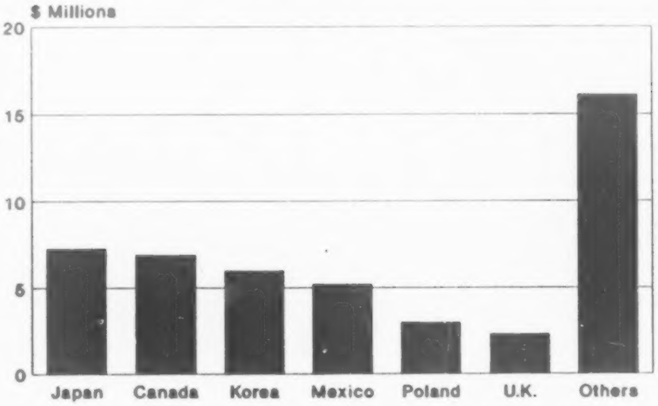
U.S. Exports of
Station Type Machines 1989
(Total: $31.7 million)



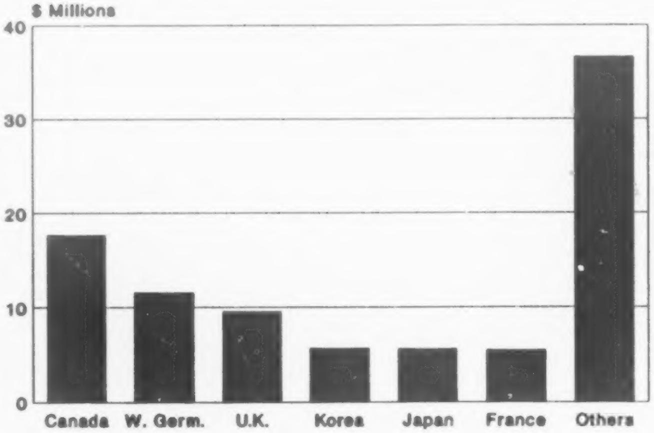
U.S. Exports of
Punching and Shearing Machines 1989
(Total: $57.4 million)



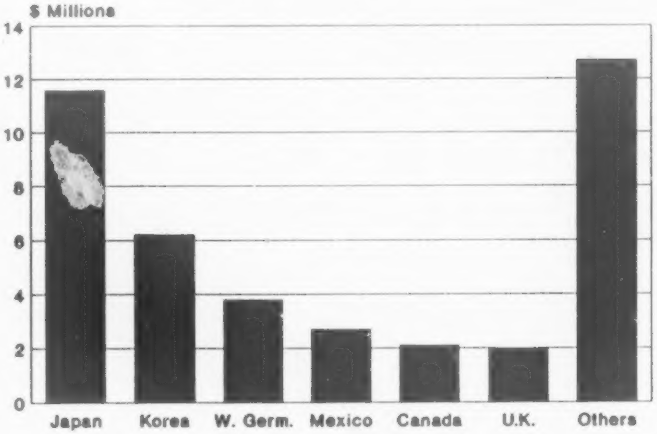
U.S. Exports of
Bending and Forming Machines 1989
(Total: $46.7 million)



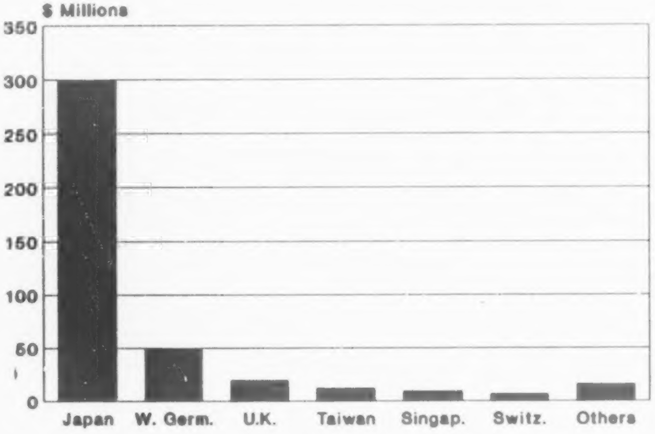
U.S. Exports of Presses 1989
(Total: $92.4 million)



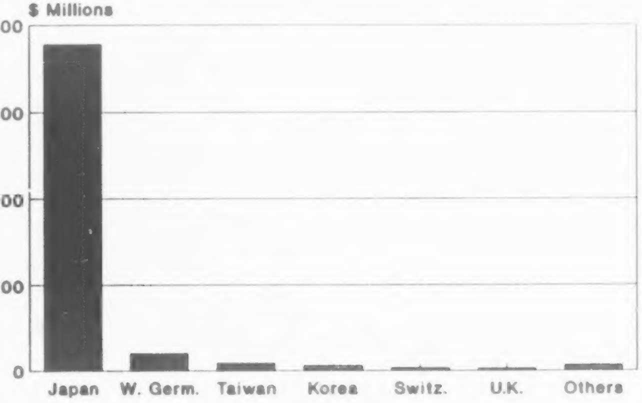
U.S. Exports of Forging Machines 1989
(Total: $41.1 million)



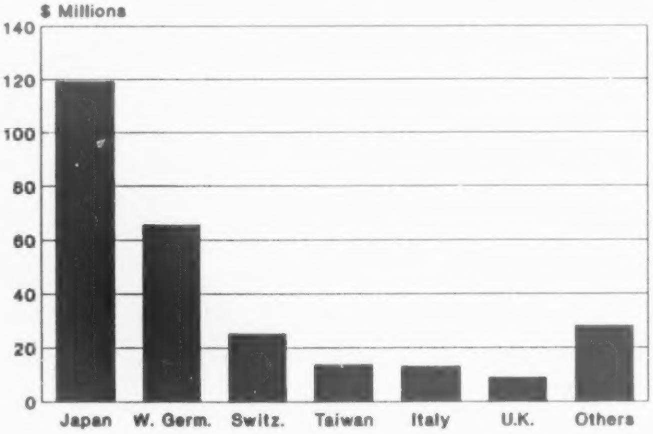
U.S. Imports of Machining Centers 1989
(Total: $410.5 million)



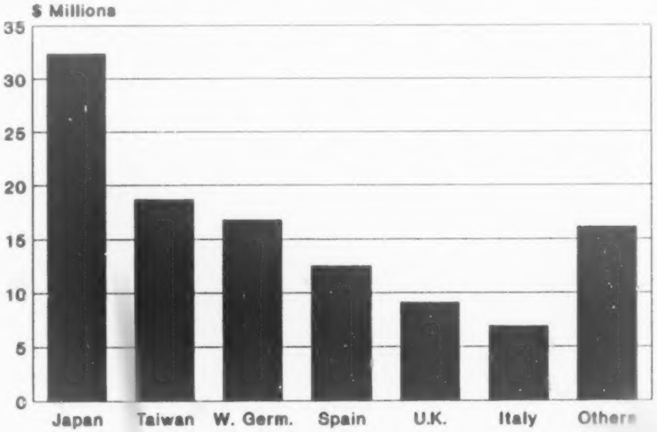
U.S. Imports of
NC Horizontal Lathes 1989
(Total: $377.9 million)



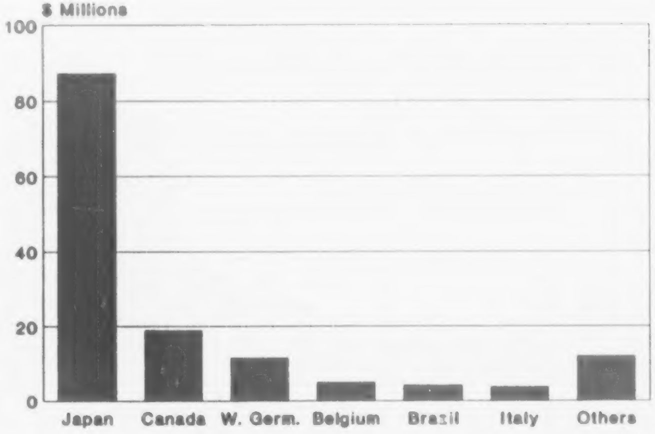
U.S. Imports of Grinding Machines 1989
(Total: $273.6 million)



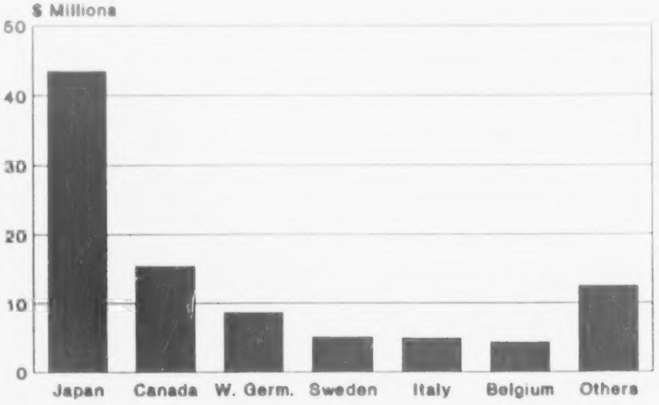
U.S. Imports of Milling Machines 1989
(Total: $112.5 million)



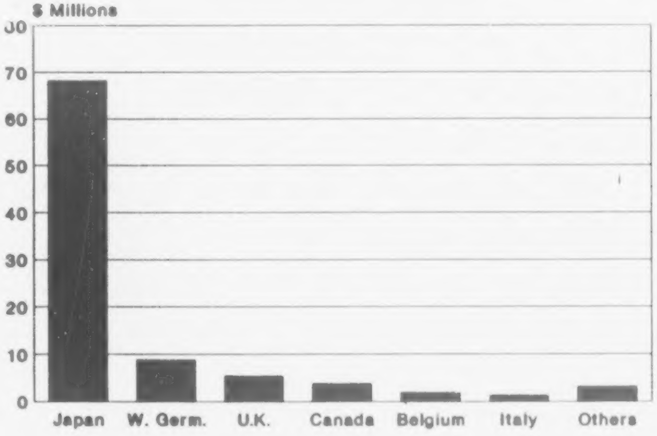
U.S. Imports of Presses 1989
(Total: $142.8 million)



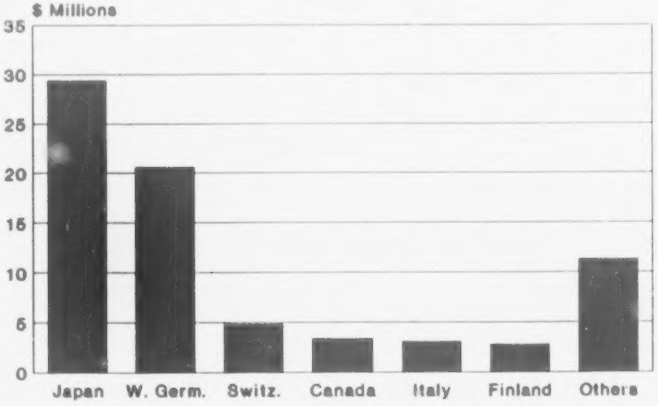
U.S. Imports of
Bending and Forming Machines 1989
(Total: $94.4 million)



U.S. Imports of Forging Machines 1989
(Total: $93.1 million)



U.S. Imports of
Punching and Shearing Machines 1989
(Total: $75.3 million)



U.S. IMPORTS
Metal Cutting Machine Tools - December 89

RELEASED: February 28, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC	732	60803	81	5881
301030	Traveling wire electro-discharge machines, non-NC	257	16700	6	378
301050	Electro-discharge machines, n.e.c., NC	159	11229	11	2107
301070	Electro-discharge machines, n.e.c., non-NC	377	15358	30	3192
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	2456	201060	210	17634
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	226	30291	21	1939
100035	Horiz. mach. ctrs., ATC	832	136510	78	12049
100045	Mach. ctrs., n.e.c.	296	42644	16	1415
200010	Unit construction mach. (single station transfer), NC	31	4393	3	251
200090	Unit construction mach. (single station transfer), non-NC	15	777	0	0
300010	Multi-station transfer machines, NC	27	20051	1	57
300090	Multi-station transfer machines, non-NC	108	28948	6	1975
8458110010	Horiz. lathes, multiple spindle, NC	365	51824	25	3429
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	3030	227428	201	16314
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	656	85013	54	6646
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	88	13648	5	977
190030	Horiz. engine or toolroom lathes, non-NC	3076	29624	284	3004
190050	Automatic bar and/or chucking mach., single spindle, non-NC	509	12768	59	1017
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	150	6433	11	343
190090	Horiz. lathes, n.e.c., non-NC	929	13330	60	1707
911060	Vertical turret lathes, multiple spindle, NC	28	12802	4	4210
911080	Vertical turret lathes, n.e.c., NC	47	7499	5	1603
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	4	1164	2	482
915070	Vertical lathes, excl. VTL's, n.e.c., NC	77	9317	9	2940
991050	Vertical turret lathes, non-NC	65	4818	1	275
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	830	23321	72	1215
8459100000	Way-type unit head machines	12	836	1	8
210080	Other drilling machines, NC	522	38961	17	5199
290040	Drilling machines, multiple spindle, non-NC	125	5721	16	92
290050	Drilling machines, radial, non-NC	463	2890	53	342
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	199	1553	9	47
290090	Drilling machines, n.e.c., non-NC	472	24979	6	985
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	16	3932	1	293
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	216	15980	6	643
310070	Boring-milling mach., n.e.c., NC	58	5706	0	0
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	42	1612	3	24
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	163	6654	3	858
400040	Boring machines, vertical, NC	17	6395	0	0
400050	Boring machines, vertical, non-NC	75	946	10	98
400070	Boring machines, n.e.c., NC	12	2790	2	331
400080	Boring machines, n.e.c., non-NC	228	13079	8	128
510080	Milling machines, knee type, NC	1090	16338	40	909
590030	Milling machines, knee type, non-NC	3737	31813	330	2392
610080	Milling machines, excl. knee type, n.e.c., NC	504	43058	24	1962
690050	Milling machines, profile, dup., or die sinking, non-NC	107	859	2	9
690070	Milling machines, bed type, non-NC	96	2889	2	58
690090	Milling machines, n.e.c., non-NC	648	17511	80	492
700020	Threading or tapping machines, n.e.c., NC	296	15073	30	1179
700080	Threading or tapping machines, n.e.c., non-NC	289	9190	14	372
8460110080	Flat surface grinding mach., NC	159	11750	8	368
190010	Flat surface grinding mach., recip.-table type, non-NC	1123	12369	102	896
190050	Flat surface grinding mach., n.e.c., non-NC	1813	19639	145	1701
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	547	91743	48	7224
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	457	14689	49	1065
290030	Grinding mach., internal cylindrical, non-NC	146	12984	7	924
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	1178	45541	61	3925
310080	Sharpening machines (tool & cutter grinding), NC	342	4027	18	196
390050	Sharpening machines (tool & cutter grinding), non-NC	729	9890	91	1396
400060	Honing or lapping machines, NC	35	6889	0	0
400080	Honing or lapping machines, non-NC	195	6760	28	1041
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	52	4498	4	21
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1329	32821	153	1913
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	6	109	0	0
200010	Shaping or slotting machines, NC	36	5571	4	2165
200090	Shaping or slotting machines, non-NC	55	3450	8	946
300060	Broaching machines, NC	13	6366	1	1941
300080	Broaching machines, non-NC	44	4344	0	0
401050	Gear hobbers	103	15952	13	482
401070	Gear shapers	19	3034	6	850
401090	Gear cutting machines, n.e.c.	443	1546	52	10
405060	Gear grinding or finishing machines	183	24944	18	4587
500050	Sawing or cutting-off machines, NC	171	4211	26	866
500090	Sawing or cutting-off machines, non-NC	1809	25975	114	2904
9000000001	Metal cutting machine tools, n.e.c.	706	17415	67	3146
9800000001	Used or rebuilt machine tools	6482	38579	101	1080
9900000001	Machine tools valued at less than $2,500	715675	97494	53814	7974
	Cutting Total			56850	155082
	Y-T-D Cutting Total	758607	1859106		
	NC Y-T-D Cutting Total	13189	1203314		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - December 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301030	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	3	294	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	1	1311	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	34	231	10	113	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	32	141	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	2	1341
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	16	75	1	3	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	1	8
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	6	22
290050	0	0	4	30	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	651	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	1	66	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	1	7
390050	0	0	0	0	0	0	0	0	1	725
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	10	98
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	5	102	0	0	3	26
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	5	191
610080	0	0	0	0	0	0	0	0	1	471
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	6	134
190050	0	0	0	0	1	4	1	8	1	3
210080	0	0	0	0	0	0	3	294	1	85
290010	0	0	0	0	27	150	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	20	1	42	9	539
310080	0	0	0	0	0	0	0	0	1	2
390050	0	0	0	0	0	0	16	196	2	29
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	1	4	0	0	0	0
900080	0	0	0	0	4	64	0	0	51	331
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	6	15	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	14
401090	0	0	0	0	0	0	0	0	0	0
405060	1	614	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	22	403	3	11	4	20
9000000001	0	0	0	0	1	3	42	459	0	0
9800000001	1	12	0	0	22	75	2	27	3	23
9900000001	3	3	1	2	65	26	73	46	2975	487
Month Tot	5	629	87	480	168	2359	145	2026	3084	4557
Y-T-D Tot	381	5492	1055	7416	3647	20824	1634	21968	36543	52076
NC YTD Tot	11	383	40	1254	124	3890	61	3794	160	15792

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - December 89

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	59	4784	0	0	0	0	0	0	0	0
301030	4	348	0	0	0	0	0	0	0	0
301050	9	411	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	129	12309	2	142	20	949	0	0	0	0
100025	14	1517	0	0	0	0	0	0	0	0
100035	61	10132	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	1	47	2	381
200010	1	51	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	21	2787	0	0	0	0	0	0	0	0
110030	195	15624	2	103	0	0	0	0	0	0
110050	54	6646	0	0	0	0	0	0	0	0
110090	2	463	0	0	0	0	0	0	0	0
190030	0	0	36	415	21	233	0	0	0	0
190050	4	496	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	15	1299	0	0	0	0	0	0	0	0
911060	2	370	0	0	0	0	0	0	0	0
911080	5	1603	0	0	0	0	0	0	0	0
915050	2	482	0	0	0	0	0	0	0	0
915070	1	63	3	305	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	2	83	13	788	0	0	1	14	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	14	1273	0	0	0	0	0	0	0	0
290040	10	70	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	7	40	10	38
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	2	21	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	2	17
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	2	331	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	1	93	0	0
590030	9	39	0	0	0	0	138	1021	0	0
610080	2	30	0	0	2	83	3	122	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	5	17	0	0	0	0	2	40	0	0
700020	28	1177	0	0	0	0	0	0	0	0
700080	5	132	0	0	0	0	0	0	0	0
8460110080	3	125	0	0	0	0	0	0	0	0
190010	28	231	0	0	40	445	0	0	0	0
190050	5	308	2	28	0	0	5	47	0	0
210080	9	2276	0	0	0	0	1	3	0	0
290010	5	195	0	0	0	0	0	0	4	247
290030	0	0	0	0	0	0	0	0	2	416
290050	10	1374	0	0	0	0	0	0	3	311
310080	1	4	0	0	0	0	0	0	0	0
390050	4	48	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	134	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	3	17
900080	11	357	8	53	0	0	0	0	1	6
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	2	2102	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	4	450	0	0	0	0	0	0	0	0
401070	1	167	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	2	285	0	0	0	0	0	0	0	0
500050	13	687	0	0	0	0	0	0	0	0
500090	23	617	0	0	0	0	0	0	2	47
9000000001	5	2392	0	0	0	0	0	0	0	0
9800000001	4	90	0	0	0	0	1	13	0	0
9900000001	12567	1849	428	315	0	0	0	0	65	60
Month Tot	13354	76228	494	2149	83	1710	162	1459	94	1540
Y-T-D Tot	74374	1042630	6424	27662	896	17898	2163	19536	2760	13639
NC YTD Tot	8419	885245	170	11006	204	10065	530	5770	17	2723

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - December 89

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	14	1025	8	72	0	0	0	0	0	0
301030	0	0	2	31	0	0	0	0	0	0
301050	0	0	0	0	0	0	2	1696	0	0
301070	13	828	11	191	0	0	4	2170	2	3
8457100015	0	0	9	1070	39	2280	3	204	5	387
100025	0	0	1	138	5	185	0	0	1	98
100035	0	0	3	233	0	0	14	1684	0	0
100045	0	0	0	0	10	457	3	530	0	0
200010	0	0	0	0	0	0	0	0	2	200
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	1	57
300090	4	608	0	0	0	0	0	0	1	57
8458110010	0	0	0	0	2	181	2	461	0	0
110030	1	78	0	0	0	0	0	0	3	509
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	2	333	1	181
190030	0	0	91	733	21	254	1	3	70	1022
190050	1	77	52	435	2	10	0	0	0	0
190070	1	163	8	64	0	0	0	0	2	115
190090	0	0	0	0	7	126	1	110	5	32
911060	0	0	0	0	0	0	2	3841	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	96	1	1088	1	46
991050	1	275	0	0	0	0	0	0	0	0
995090	0	0	0	0	1	43	21	91	17	117
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	16	0	0	1	170	1	3740	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	13	51	0	0	1	102	18	81
290070	0	0	9	47	0	0	0	0	0	0
290090	0	0	0	0	0	0	3	313	0	0
310010	0	0	0	0	1	293	0	0	0	0
310040	1	495	0	0	0	0	4	81	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	2	133
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	19	167	19	636	0	0	1	13
590030	1	28	79	604	20	81	0	0	78	427
610080	0	0	7	98	1	2	8	1157	0	0
690050	0	0	2	9	0	0	0	0	0	0
690070	0	0	2	58	0	0	0	0	0	0
690090	1	78	11	44	0	0	7	163	54	150
700020	0	0	2	2	0	0	0	0	0	0
700080	1	16	2	6	2	29	4	189	0	0
8460110080	0	0	1	2	2	95	2	146	0	0
190010	0	0	10	40	0	0	8	22	10	23
190050	0	0	123	778	3	57	1	15	3	455
210080	5	883	2	116	4	108	23	3460	0	0
290010	4	339	5	22	4	112	0	0	0	0
290030	2	178	0	0	0	0	3	331	0	0
290050	4	16	1	32	3	172	26	1282	3	137
310080	0	0	0	0	12	27	4	164	0	0
390050	7	149	4	24	10	67	35	618	13	266
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	10	79	14	815	2	13
900060	0	0	0	0	0	0	0	0	0	0
900080	4	117	8	84	18	173	35	569	13	157
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	2	64
200090	0	0	0	0	0	0	2	931	0	0
300060	0	0	0	0	1	1941	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	6	25	0	0	0	0	0	0	3	7
401070	0	0	0	0	1	14	2	636	1	19
401090	50	6	0	0	0	0	2	4	0	0
405060	9	1140	0	0	0	0	4	2413	2	135
500050	0	0	3	26	0	0	10	153	0	0
500090	1	11	14	46	19	104	16	1608	10	35
9000000001	0	0	0	0	0	0	8	254	11	38
9800000001	2	25	7	47	38	399	14	302	7	68
9900000001	15	16	30233	4232	121	143	227	203	7041	594
Month Tot	149	6589	30742	9503	378	8333	520	31881	7385	5638
Y-T-D Tot	1760	86971	476193	132120	7287	80673	10860	271243	132630	58958
NC YTD Tot	221	31649	1151	30534	768	42623	928	146051	385	12533

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 89

RELEASED: February 28, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	4105	44684	25	3531
8462100030	Headers and upsetters, including cold headers	138	11618	4	408
100050	Forging or die stamping machines, and hammers, n.e.c.	1416	81502	89	11430
210080	Bending, folding, straight. or flat. mach., incl presses, NC	991	37184	55	3268
290030	Press brakes, non-NC	374	9764	23	523
290040	Bending rolls, non-NC	77	2022	2	54
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1071	45446	67	4476
310080	Shearing machines, NC	57	6661	6	708
390050	Shearing machines, non-NC	738	14001	49	634
410080	Punching or notching mach., incl. comb. punch & shear, NC	362	40916	21	2504
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	643	13688	88	925
910060	Hydraulic presses, NC	43	6466	8	1499
910090	Hydraulic presses, non-NC	684	23578	140	943
990030	Presses, n.e.c., NC	93	6498	1	378
990040	Presses, mechanical, non-NC	66	23337	0	0
990060	Presses, n.e.c., non-NC	1085	82903	104	3926
8463100080	Draw benches for bars, tubes, profiles, wire or the like	39	5009	0	0
200080	Thread rolling machines	62	3086	3	152
300080	Machines for working wire	742	35780	85	4402
900080	Metal forming machine tools, n.e.c.	799	29113	40	1677
9800000002	Used or rebuilt machine tools	3037	17486	2144	2098
9900000002	Machine tools valued at less than $2,500	22580	6799	1174	426
	Forming Total			4128	43961
	Y-T-D Forming Total	39202	547543		
	NC Y-T-D Forming Total	1546	97727		
	Cutting and Forming Totals:				
	Monthly Total			60978	199043
	Y-T-D Total	797809	2406649		
	NC Y-T-D Total	14735	1301041		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	579435	0	33815
2710003070	Quenching or cutting oils	0	79	0	6
8428900010	Industrial robots for lifting, handling, loading or unload	1981	43625	161	4025
8456101010	Laser, light or photon beam for working metal, NC	121	18124	13	2596
101020	Laser, light or photon beam for working metal, non-NC	48	4954	8	1003
105000	Laser, light or photon beam for other materials	2125	6935	59	1907
201010	Ultrasonic processes for working metal, NC	6	952	0	0
201050	Ultrasonic processes for working metal, non-NC	12	29	0	0
205000	Ultrasonic processes for working other materials	148	1163	5	528
8477106010	Injection molding mach., for rubber or oth. thermosetting	1029	90553	90	6131
106050	Injection molding mach., for thermoplastics	2685	268022	246	24395
200010	Extruders for rubber or other thermosetting materials	216	24197	15	3176
200050	Extruders for processing thermoplastics	731	43996	86	6590
300000	Blow molding machines	302	43082	38	4266
400000	Vacuum-molding and other thermoforming machines	315	15800	33	925
8479899040	Industrial robots, n.e.c.	23945	137767	1116	11559
908040	Industrial robot parts	0	47214	0	3483
8537100030	Numerical controls for controlling machine tools	13534	52862	829	4074
9024100000	Machines and appliances for testing metals	0	14217	0	1689
9031100000	Machines for balancing mechanical parts	0	10405	0	191
300000	Profile projectors	0	4925	0	263
9032810020	Industrial process control instr., hydraulic	211812	2846	17080	194
810060	Industrial process control instr., pneumatic	168982	3419	51115	518

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 89

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	14	269	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	1	119
100050	0	0	0	0	6	337	6	162	4	22
210080	0	0	0	0	5	221	0	0	0	0
290030	4	90	0	0	14	400	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	6
290050	2	18	0	0	17	1451	0	0	10	435
310080	4	83	0	0	0	0	0	0	0	0
390050	9	204	0	0	8	168	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	10	81
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	3	251	0	0	54	368
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	19	1234	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	1	83	0	0
300080	23	2094	0	0	2	85	0	0	11	369
900080	2	10	0	0	1	80	0	0	4	283
9800000002	7	122	0	0	12	266	0	0	2	284
9900000002	0	0	0	0	53	10	0	0	100	3
Month Tot	51	2619	0	0	154	4770	7	245	197	1969
Y-T-D Tot	527	22677	254	4520	4493	50649	133	1796	1323	27818
NC YTD Tot	49	1670	0	0	29	2024	10	235	76	3742
C&F Month	56	3249	87	480	322	7130	152	2272	3281	6526
C&F Y-T-D	908	28169	1309	11936	8140	71472	1767	23764	37866	79894
C&F NC YTD	60	2054	40	1254	153	5914	71	4030	236	19533

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	85	0	75	0	3024	0	637	0	1877
2710003070	0	0	0	0	0	6	0	0	0	0
8428900010	0	0	0	0	75	1005	0	0	0	0
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	1	15	1	110	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	1	181
8477106010	0	0	0	0	4	502	6	425	3	300
106050	0	0	0	0	50	5049	1	12	18	3294
200010	0	0	0	0	0	0	0	0	2	503
200050	0	0	0	0	11	288	0	0	8	1168
300000	0	0	0	0	0	0	9	1845	0	0
400000	0	0	0	0	1	2	0	0	0	0
8479899040	0	0	0	0	3	568	0	0	0	0
908040	0	0	0	0	0	35	0	258	0	15
8537100030	0	0	0	0	0	0	0	0	12	49
9024100000	0	0	0	0	0	119	0	3	0	21
9031100000	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	6
9032810020	0	0	0	0	2	7	0	0	0	0
810060	0	0	0	0	1742	87	0	0	1023	11

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 89

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	6	3185	0	0	0	0	0	0	0	0
8462100030	3	289	0	0	0	0	0	0	0	0
100050	28	7931	10	141	0	0	8	8	0	0
210080	32	1638	0	0	0	0	0	0	7	736
290030	2	16	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	316	0	0	0	0	2	7	8	271
310080	1	414	0	0	0	0	0	0	0	0
390050	1	25	0	0	0	0	0	0	1	16
410080	11	1166	0	0	0	0	0	0	0	0
490050	2	25	0	0	0	0	30	258	0	0
910060	8	1499	0	0	0	0	0	0	0	0
910090	66	167	0	0	0	0	0	0	0	0
990030	1	378	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	51	1724	0	0	0	0	2	6	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	2	69	0	0	0	0	0	0	0	0
300080	35	935	0	0	0	0	0	0	0	0
900080	19	77	0	0	0	0	0	0	0	0
9800000002	4	21	6	100	0	0	0	0	3	358
9900000002	74	50	0	0	0	0	40	47	0	0
Month Tot	348	19926	16	241	0	0	82	325	19	1381
Y-T-D Tot	5537	294529	91	635	68	862	666	3094	419	10879
NC YTD Tot	950	53967	0	0	0	0	2	71	16	1974
C&F Month	13702	96154	510	2389	83	1710	244	1784	113	2921
C&F Y-T-D	79911	1337159	6515	28297	964	18760	2829	22630	3179	24518
C&F NC YTD	9369	939212	170	11006	204	10065	532	5841	33	4697

Other Manufacturing Technology

1000000000	0	10721	0	186	0	767	0	92	0	484
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	66	2090	0	0	0	0	0	0	1	58
8456101010	8	2221	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	30	13	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	2	9	0	0	0	0	0	0	0	0
8477106010	38	3931	3	170	0	0	0	0	0	0
106050	49	6463	2	93	1	24	0	0	0	0
200010	7	1407	0	0	0	0	0	0	0	0
200050	5	2377	0	0	0	0	0	0	0	0
300000	1	363	0	0	0	0	1	19	0	0
400000	27	83	0	0	0	0	0	0	0	0
8479899040	1060	10188	0	0	0	0	0	0	6	358
908040	0	1912	0	0	0	0	0	0	0	25
8537100030	735	3976	0	0	0	0	0	0	0	0
9024100000	0	193	0	0	0	0	0	0	0	0
9031100000	0	52	0	0	0	0	0	0	0	0
300000	0	30	0	0	0	0	0	0	0	0
9032810020	2	24	0	0	0	0	0	0	0	0
810060	335	7	0	0	0	0	0	0	567	96

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 89

Metal Forming	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	53	0	0	2	25	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	7	13	2243	3	180	10	399
210080	0	0	0	0	0	0	5	391	6	283
290030	0	0	0	0	0	0	1	5	2	13
290040	0	0	0	0	0	0	0	0	1	48
290050	2	53	3	462	0	0	11	1365	10	97
310080	0	0	0	0	0	0	1	211	0	0
390050	0	0	0	0	26	160	0	0	4	62
410080	1	44	0	0	0	0	8	956	1	337
490050	0	0	2	117	0	0	44	445	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	5	36	1	15	8	74	3	32
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	6	101	1	5	24	794	1	62
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	520	3	54	2	20	8	326	0	0
900080	3	547	0	0	1	24	8	493	2	163
9800000002	7	7	1908	186	50	202	127	176	18	377
9900000002	22	9	572	168	93	55	34	18	186	66
Month Tot	39	1233	2500	1131	189	2748	282	5434	244	1938
Y-T-D Tot	1687	17506	11941	9355	1182	16793	1849	67485	9032	18946
NC YTD Tot	33	4713	25	1046	10	568	254	21785	92	5930
C&F Month	188	7822	33242	10635	567	11081	802	37315	7629	7576
C&F Y-T-D	3447	104478	488134	141475	8469	97465	12709	338728	141662	77904
C&F NC YTD	254	36362	1176	31581	778	43191	1182	167836	477	18463

Other Manufacturing Technology

1000000000	0	1761	0	1829	0	2008	0	7642	0	2626
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	4	183	0	0	7	670	8	19	0	0
8456101010	1	210	0	0	0	0	0	0	4	165
101020	0	0	0	0	0	0	8	1003	0	0
105000	20	7	0	0	2	778	1	355	4	630
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	2	339	0	0	0	0
8477106010	3	138	4	294	6	32	23	339	0	0
106050	14	2996	16	1195	8	360	71	3225	16	1684
200010	2	278	0	0	2	47	2	940	0	0
200050	0	0	4	110	23	282	35	2364	0	0
300000	0	0	1	19	0	0	26	2020	0	0
400000	0	0	1	16	0	0	3	653	1	171
8479899040	0	0	0	0	2	94	3	180	42	172
908040	0	49	0	12	0	326	0	774	0	79
8537100030	1	31	0	0	0	0	80	12	1	6
9024100000	0	50	0	1	0	611	0	175	0	516
9031100000	0	5	0	10	0	64	0	0	0	60
300000	0	0	0	0	0	184	0	0	0	42
9032810020	294	8	0	0	3500	13	2	33	13280	110
810060	0	0	4550	45	1	3	42892	267	5	3

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	9	169	1	159	10	328
Bulgaria	0	0	0	0	0	0
Czechoslovakia	4	47	0	0	4	47
Denmark	28	139	27	87	55	226
East Germany	4	179	0	0	4	179
Finland	1	94	7	502	8	596
Hungary	5	709	0	0	5	709
Ireland	0	0	0	0	0	0
Luxembourg	0	0	2	5	2	5
Netherlands	4	516	21	180	25	697
Norway	1	12	1	51	2	63
Poland	37	691	0	0	37	691
Portugal	0	0	6	83	6	83
Romania	0	0	0	0	0	0
USSR	1	22	0	0	1	22
Yugoslavia	15	172	2	227	17	399
Oth Europe	33	32	6	167	39	199
TOTAL	4679	59797	939	17415	5618	77213
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	1	2	0	0	1	2
Mexico	396	87	18	46	414	133
Oth N & C Am.	0	0	0	0	0	0
TOTAL	565	2448	172	4816	737	7264
SOUTH AMERICA						
Argentina	2	13	0	0	2	13
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	89	493	0	0	89	493
OCEANIA						
Australia	3	218	1	310	4	528
New Zealand	3	5	0	0	3	5
Oth Oceania	0	0	0	0	0	0
TOTAL	6	224	1	310	7	534

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	6777	1788	151	95	6928	1883
Hong Kong	45	99	0	0	45	99
India	8	156	0	0	8	156
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	8	487	1	26	9	513
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	51511	92120	3016	21419	54527	113539
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Cutting Machine Tools - December 89

RELEASED: February 28, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	344	5082	8	432
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	31	4918	1	153
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	9	1343	1	87
100035	Horiz. mach. ctrs., ATC	45	19679	2	1546
100045	Mach. ctrs., n.e.c.	295	19796	33	1955
200010	Unit construction mach. (single station transfer), NC	3	2683	0	0
200090	Unit construction mach. (single station transfer), non-NC	8	4445	0	0
300010	Multi-station transfer machines, NC	10	17348	2	4617
300090	Multi-station transfer machines, non-NC	18	3918	1	400
8458110010	Horiz. lathes, multiple spindle, NC	4	634	1	100
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	184	15356	11	931
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	50	9433	2	737
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	8	1767	0	0
190030	Horiz. engine or toolroom lathes, non-NC	96	2221	9	235
190050	Automatic bar and/or chucking mach., single spindle, non-NC	20	109	1	5
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	42	2945	3	183
190090	Horiz. lathes, n.e.c., non-NC	266	3588	21	268
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	5	863	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	539	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	13	1448	2	300
991050	Vertical turret lathes, non-NC	23	698	3	49
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	71	3537	10	331
8459100000	Way-type unit head machines	17	3318	0	0
210080	Other drilling machines, NC	107	7765	9	398
290040	Drilling machines, multiple spindle, non-NC	22	1240	2	97
290050	Drilling machines, radial, non-NC	25	963	0	0
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	68	953	0	0
290090	Drilling machines, n.e.c., non-NC	531	6009	51	236
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	7	2588	2	790
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	4	738	1	96
310070	Boring-milling mach., n.e.c., NC	33	2492	1	55
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	3	247	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	103	2100	0	0
400040	Boring machines, vertical, NC	4	1294	0	0
400050	Boring machines, vertical, non-NC	41	1167	2	28
400070	Boring machines, n.e.c., NC	1	1350	0	0
400080	Boring machines, n.e.c., non-NC	55	3618	2	300
510080	Milling machines, knee type, NC	25	1699	0	0
590030	Milling machines, knee type, non-NC	54	2342	5	157
610080	Milling machines, excl. knee type, n.e.c., NC	60	8177	11	438
690050	Milling machines, profile, dup., or die sinking, non-NC	24	1290	2	149
690070	Milling machines, bed type, non-NC	55	7023	0	0
690090	Milling machines, n.e.c., non-NC	303	6716	4	94
700020	Threading or tapping machines, n.e.c., NC	34	2030	5	819
700080	Threading or tapping machines, n.e.c., non-NC	286	6635	23	192
8460110080	Flat surface grinding mach., NC	153	11682	16	629
190010	Flat surface grinding mach., recip.-table type, non-NC	137	1823	12	146
190050	Flat surface grinding mach., n.e.c., non-NC	98	8715	1	80
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	321	27305	6	2355
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	45	5835	3	1195
290030	Grinding mach., internal cylindrical, non-NC	59	5919	3	1321
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	474	21481	41	1591
310080	Sharpening machines (tool & cutter grinding), NC	57	5741	15	538
390050	Sharpening machines (tool & cutter grinding), non-NC	1204	11593	183	1555
400060	Honing or lapping machines, NC	2	58	0	0
400080	Honing or lapping machines, non-NC	741	9784	27	903
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	35	3653	2	50
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	630	14786	72	1822
8461100060	Planing machines, NC	6	3712	0	0
100080	Planing machines, non-NC	176	6065	7	116
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	56	1356	15	181
300060	Broaching machines, NC	4	369	1	18
300080	Broaching machines, non-NC	53	2364	0	0
401050	Gear hobbers	78	6909	16	1123
401070	Gear shapers	67	5561	1	39
401090	Gear cutting machines, n.e.c.	87	32273	16	14213
405060	Gear grinding or finishing machines	62	9141	5	166
500050	Sawing or cutting-off machines, NC	37	1907	0	0
500090	Sawing or cutting-off machines, non-NC	1073	14108	113	1364
9000000001	Metal cutting machine tools, n.e.c.	371	13697	50	1398
9800000001	Used or rebuilt machine tools	6033	53927	407	5083
9900000001	Machine tools valued at less than $2,500	40171	14963	1664	1051
	Cutting Total			2907	53115
	Y-T-D Cutting Total	55639	488833		
	NC Y-T-D Cutting Total*	1633	184588		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - December 89

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	1	87
100035	0	0	0	0	0	0	0	0	2	1546
100045	0	0	0	0	5	682	0	0	16	804
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	1	95
110050	0	0	0	0	0	0	0	0	2	737
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	2	42
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	4	16
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	2	50	1	27
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	115
290040	0	0	0	0	0	0	0	0	1	32
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	2	790	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	55
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	2	300	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	3	89	0	0	0	0	0	0	1	51
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	3	81
700080	8	56	0	0	1	73	0	0	1	4
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	7	83
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	710
290010	0	0	0	0	0	0	0	0	1	566
290030	0	0	0	0	0	0	0	0	1	362
290050	0	0	0	0	0	0	0	0	3	27
310080	0	0	0	0	0	0	0	0	0	0
390050	3	22	0	0	0	0	4	63	39	293
400060	0	0	0	0	0	0	0	0	0	0
400080	5	38	0	0	0	0	1	7	0	0
900060	0	0	0	0	0	0	0	0	2	50
900080	2	55	2	21	2	19	0	0	6	62
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	14	70
300060	1	18	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	39
401090	2	1200	0	0	0	0	0	0	1	100
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	1	15	0	0	0	0	2	17	30	327
9000000001	0	0	0	0	0	0	1	5	1	9
9800000001	8	54	0	0	0	0	16	285	67	453
9900000001	10	7	0	0	6	4	6	4	526	84
Month Tot	43	1554	2	21	14	777	36	1521	738	6927
Y-T-D Tot	821	11154	60	1274	204	7626	581	11815	24189	68369
NC YTD Tot*	15	1646	5	646	45	5149	49	4871	243	28133

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - December 89

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	5	473	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	3	158	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	20	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	1	80	0	0	0	0	0	0	0	0
210080	0	0	1	520	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	1	916	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	56	363	0	0	0	0	0	0	1	295
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	5	1	603	0	0	2	52
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	17	0	0	7	913
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	0	0	1	20
9000000001	0	0	0	0	0	0	0	0	3	45
9800000001	32	2187	15	63	9	56	0	0	3	41
9900000001	0	0	0	0	0	0	0	0	101	40
Month Tot	95	4019	21	767	12	675	0	0	118	1406
Y-T-D Tot	660	29051	853	11814	243	11604	102	4155	931	14764
NC YTD Tot*	107	16179	53	7875	7	2010	6	1968	19	1443

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - December 89

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	3	174	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	1	100	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	2	15	0	0
190050	0	0	0	0	0	0	1	5	0	0
190070	2	72	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	8	43	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	110	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	5	221	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	1	65	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	96	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	16	0	0	0	0	0	0	0	0
610080	0	0	8	298	0	0	1	75	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	2	38	0	0	1	36	0	0
700020	2	738	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	7	41	0	0
8460110080	0	0	0	0	0	0	1	25	2	97
190010	0	0	0	0	0	0	5	63	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	610	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	1	540	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	5	0	0	0	0	3	82	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	13	83	28	183	2	10	9	64	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	26	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	12	128	4	22	0	0	11	351	2	11
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	6	91	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	1	60	0	0	4	107	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	3	22	8	143	0	0	10	102	5	43
9000000001	7	58	0	0	0	0	10	148	1	50
9800000001	9	238	0	0	0	0	69	503	85	527
9900000001	295	188	43	32	0	0	67	41	0	0
Month Tot	348	2334	94	775	2	10	227	2949	95	729
Y-T-D Tot	3633	30662	1682	35951	103	1000	7360	60250	540	4598
NC YTD Tot*	146	10524	146	13881	3	135	173	12868	23	2096

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - December 89

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	7	401	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	400
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	2	146	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	189	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	2	57	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	12	0	0	0	0	43	195	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	18	114	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	35	0	0	1	21	1	3
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	3	41	1	10	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	111	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	1	20	0	0
9000000001	0	0	0	0	3	45	3	22	1	10
9800000001	0	0	2	14	0	0	31	69	7	14
9900000001	84	86	0	0	8	5	21	12	18	12
Month Tot	88	265	5	49	21	492	122	800	28	439
Y-T-D Tot	894	7885	240	3156	309	4006	746	9636	136	2635
NC YTD Tot*	36	2453	3	841	17	1649	49	3660	19	793

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - December 89

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	30	0	0
8457100015	0	0	0	0	0	0	0	0	1	153
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	7	152	0	0	0	0	0	0	2	143
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	2	4617	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	5	363
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	1	15	1	4
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	111	0	0
190090	1	3	0	0	0	0	0	0	6	58
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	2	28	0	0	0	0	0	0	1	21
995090	0	0	0	0	0	0	1	16	1	17
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	2	125	4	102
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	3	0	0	0	0	0	0	6	26
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	2	28
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	2	66
690050	0	0	0	0	0	0	2	149	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	6	18
8460110080	0	0	0	0	0	0	10	353	3	155
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	255	1	260
290010	0	0	0	0	0	0	0	0	1	89
290030	0	0	0	0	0	0	1	43	0	0
290050	33	1458	0	0	0	0	0	0	1	19
310080	14	497	0	0	0	0	0	0	1	41
390050	0	0	0	0	0	0	10	65	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	16	0	0	0	0	4	28	6	70
900060	0	0	0	0	0	0	0	0	0	0
900080	3	30	0	0	1	7	6	56	8	80
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	25	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	15	526	1	597
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	7	8997	0	0	1	434	5	3483
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	35	450	0	0	0	0	3	32	14	173
9000000001	1	8	0	0	4	37	9	282	6	680
9800000001	23	75	0	0	0	0	14	264	17	239
9900000001	123	79	0	0	0	0	77	50	279	407
Month Tot	246	7415	7	8997	5	44	160	2861	380	7291
Y-T-D Tot	2912	60151	96	20925	307	5531	1882	31271	6155	39549
NC YTD Tot*	199	38890	22	3238	10	701	93	11078	145	11861

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 89

RELEASED: February 28, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	535	8753	20	588
8462100030	Headers and upsetters, including cold headers	121	20859	10	2168
100050	Forging or die stamping machines, and hammers, n.e.c.	681	20262	27	1272
210080	Bending, folding, straight. or flat. mach., incl presses, NC	312	21357	12	965
290030	Press brakes, non-NC	33	1308	2	41
290040	Bending rolls, non-NC	56	1686	3	92
290050	Bending, folding, straight., or flat., n.e.c., non-NC	618	22357	49	1239
310080	Shearing machines, NC	59	4249	5	283
390050	Shearing machines, non-NC	274	5471	31	1108
410080	Punching or notching mach., incl. comb. punch & shear, NC	162	23923	18	1655
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	772	23777	74	2097
910060	Hydraulic presses, NC	87	6697	4	1932
910090	Hydraulic presses, non-NC	595	25652	48	2876
990030	Presses, n.e.c., NC	64	7435	10	1048
990040	Presses, mechanical, non-NC	223	13211	60	3340
990060	Presses, n.e.c., non-NC	675	39407	84	7639
8463100080	Draw benches for bars, tubes, profiles, wire or the like	273	6784	23	543
200080	Thread rolling machines	42	2873	3	94
300080	Machines for working wire	929	31943	65	2323
900080	Metal forming machine tools, n.e.c.	2035	104370	110	6968
9800000002	Used or rebuilt machine tools	3259	63746	144	2313
9900000002	Machine tools valued at less than $2,500	6403	4837	907	769
	Forming Total			1709	41355
	Y-T-D Forming Total	18208	460956		
	NC Y-T-D Forming Total	684	63560		
	Cutting and Forming Totals:				
	Monthly Total			4616	94469
	Y-T-D Total	73847	949789		
	NC Y-T-D Total*	2317	248248		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	714343	0	56590
2710003070	Quenching or cutting oils	0	12692	0	1077
8428900010	Industrial robots for lifting, handling, loading or unload	838	12570	67	1903
8456100000	Laser, light or photon beam for working any material	2303	43081	87	2662
200000	Ultrasonic process for working any material	92	798	2	38
8477106010	Injection molding mach., for rubber or oth. thermosetting	239	21666	22	1115
106050	Injection molding mach., for thermoplastics	400	47037	28	5673
200010	Extruders for rubber or other thermosetting materials	260	11772	9	1312
200050	Extruders for processing thermoplastics	940	35563	70	1847
300000	Blow molding machines	509	28366	48	1860
400000	Vacuum-molding and other thermoforming machines	1554	15110	26	342
8479899040	Industrial robots, n.e.c.	2417	34221	178	4103
900040	Industrial robot parts	0	15601	0	2462
8537100030	Numerical controls for controlling machine tools	9154	40757	237	3010
9024100000	Machines and appliances for testing metals	0	74219	0	5519
9031100000	Machines for balancing mechanical parts	0	21293	0	1252
300000	Profile projectors	0	7997	0	654
9032810040	Industrial process control instr., hydraulic or pneumatic	778332	46924	118867	4409

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 89

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	3	31	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	20	0	0	0	0	0	0	1	20
210080	0	0	0	0	0	0	0	0	5	518
290030	0	0	0	0	0	0	0	0	1	33
290040	0	0	0	0	0	0	0	0	2	44
290050	5	24	0	0	0	0	0	0	12	208
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	2	80
410080	1	182	0	0	0	0	0	0	2	240
490050	0	0	0	0	0	0	4	43	21	185
910060	0	0	0	0	0	0	0	0	1	55
910090	0	0	0	0	2	1921	0	0	2	235
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	13	600	0	0
990060	1	19	0	0	1	25	0	0	5	134
8463100080	0	0	0	0	1	23	0	0	3	48
200080	0	0	0	0	0	0	0	0	1	13
300080	0	0	0	0	0	0	4	221	6	139
900080	1	7	0	0	0	0	1	680	4	56
9800000002	0	0	0	0	0	0	1	17	15	177
9900000002	20	22	0	0	0	0	0	0	92	79
Month Tot	29	273	0	0	7	2000	23	1562	175	2265
Y-T-D Tot	577	7094	109	815	145	4787	204	9365	2913	42396
NC YTD Tot	28	1539	0	0	0	0	11	732	146	14267
C&F Month	72	1827	2	21	21	2777	59	3083	913	9192
C&F Y-T-D	1398	18248	169	2090	349	12413	785	21180	27102	110765
C&F NC YTD*	43	3185	5	646	45	5149	60	5604	389	42399

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1184	0	32	0	924	0	645	0	9040
2710003070	0	10	0	0	0	4	0	0	0	109
8428900010	8	9	0	0	0	0	0	0	3	118
8456100000	0	0	0	0	0	0	0	0	1	13
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	1	67	0	0	1	26
106050	1	41	0	0	0	0	1	608	1	111
200010	0	0	0	0	0	0	0	0	0	0
200050	2	21	0	0	1	20	16	397	9	363
300000	1	582	0	0	0	0	0	0	12	396
400000	1	4	0	0	0	0	0	0	10	100
8479899040	0	0	0	0	0	0	0	0	13	135
900040	0	0	0	0	0	7	0	0	0	184
8537100030	1	8	0	0	1	11	0	0	7	116
9024100000	0	274	0	87	0	47	0	117	0	771
9031100000	0	3	0	0	0	0	0	0	0	420
300000	0	0	0	0	0	0	0	0	0	81
9032810040	1837	110	2715	139	1992	100	254	16	26742	565

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 89

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	443	2	30	0	0	0	0	0	0
8462100030	2	38	2	913	0	0	0	0	0	0
100050	0	0	1	11	0	0	0	0	0	0
210080	1	145	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	1	8
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	14	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	1	18	2	71	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	2	72
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	1120	0	0	0	0	0	0
990060	0	0	6	179	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	1	26
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	9	1092
900080	4	90	0	0	0	0	0	0	23	992
9800000002	1	20	6	120	0	0	0	0	3	42
9900000002	0	0	0	0	0	0	0	0	0	0
Month Tot	11	737	19	2392	3	85	0	0	39	2232
Y-T-D Tot	256	11700	434	10636	133	8919	29	234	258	9856
NC YTD Tot	24	1122	6	691	4	1067	2	82	6	2782
C&F Month	106	4755	40	3159	15	760	0	0	157	3638
C&F Y-T-D	916	40750	1287	22450	376	20523	131	4389	1189	24621
C&F NC YTD*	131	17301	59	8566	11	3077	8	2050	25	4225

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	8823	0	1743	0	402	0	24	0	1294
2710003070	0	0	0	0	0	0	0	14	0	3
8428900010	0	0	7	71	1	62	0	0	0	0
8456100000	21	487	0	0	1	35	0	0	4	78
200000	0	0	1	14	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	0	0	0	0	0	0	0	0	0	0
200010	4	417	0	0	1	581	0	0	0	0
200050	0	0	0	0	0	0	0	0	1	10
300000	0	0	0	0	0	0	0	0	1	10
400000	0	0	1	3	0	0	0	0	2	13
8479899040	4	2090	1	16	3	129	0	0	5	214
900040	0	0	0	111	0	0	0	0	0	55
8537100030	0	0	38	480	0	0	1	15	9	99
9024100000	0	73	0	170	0	46	0	29	0	108
9031100000	0	0	0	0	0	0	0	0	0	3
300000	0	0	0	0	0	0	0	3	0	0
9032810040	1020	51	1155	170	0	0	0	0	6677	393

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 89

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	42	0	0
8462100030	3	924	2	66	0	0	0	0	0	0
100050	4	554	5	103	0	0	2	197	1	8
210080	0	0	1	51	0	0	2	118	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	1	47	0	0	0	0	0	0	0	0
290050	1	5	1	13	1	15	19	688	0	0
310080	0	0	0	0	1	67	3	144	0	0
390050	9	148	17	274	0	0	2	37	0	0
410080	0	0	1	77	0	0	0	0	1	50
490050	6	164	5	628	0	0	6	197	1	146
910060	0	0	0	0	0	0	1	12	0	0
910090	0	0	3	88	0	0	32	367	1	11
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	2	57	0	0
990060	2	47	1	225	0	0	57	5121	0	0
8463100080	0	0	0	0	0	0	0	0	12	307
200080	0	0	0	0	0	0	1	10	0	0
300080	2	39	0	0	0	0	2	61	0	0
900080	24	2181	1	274	0	0	14	194	1	9
9800000002	3	783	8	388	0	0	45	439	0	0
9900000002	23	21	306	260	0	0	170	148	0	0
Month Tot	78	4911	351	2446	2	82	359	7834	17	531
Y-T-D Tot	982	47480	1316	62610	31	1623	3466	47026	412	6913
NC YTD Tot	102	8409	54	4802	8	1078	64	4382	24	2870
C&F Month	426	7245	445	3221	4	92	586	10783	112	1260
C&F Y-T-D	4615	78142	2998	98561	134	2623	10826	107276	952	11511
C&F NC YTD*	248	18933	200	18683	11	1213	237	17249	47	4966

Other Manufacturing Technology

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	4245	0	1908	0	285	0	4223	0	597
2710003070	0	177	0	5	0	6	0	30	0	0
8428900010	1	25	1	32	3	4	38	1256	0	0
8456100000	33	1269	0	0	0	0	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	4	322	0	0	16	699	0	0
106050	4	1277	0	0	0	0	20	3542	0	0
200010	0	0	0	0	0	0	4	313	0	0
200050	24	613	2	52	0	0	0	0	2	50
300000	2	7	0	0	0	0	3	200	0	0
400000	7	63	0	0	0	0	3	87	0	0
8479899040	12	109	2	212	0	0	0	0	0	0
900040	0	1709	0	78	0	4	0	3	0	0
8537100030	2	55	1	12	0	0	4	124	50	437
9024100000	0	1107	0	486	0	0	0	239	0	68
9031100000	0	73	0	225	0	25	0	125	0	0
300000	0	0	0	68	0	90	0	0	0	8
9032810040	13803	720	1106	60	0	0	728	81	6270	344

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 89

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	10	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	101	0	0	1	7	0	0
210080	0	0	0	0	0	0	1	32	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	7	0	0	1	23	0	0	1	16
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	10	569	0	0
490050	0	0	0	0	0	0	7	200	0	0
910060	0	0	0	0	0	0	1	1700	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	1	165
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	1	150	0	0
8463100080	1	26	0	0	4	109	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	2	98	0	0	0	0	0	0
900080	7	1034	1	14	0	0	17	1173	0	0
9800000002	0	0	0	0	0	0	0	0	44	34
9900000002	4	3	0	0	17	15	0	0	0	0
Month Tot	14	1079	4	213	22	147	38	3831	46	214
Y-T-D Tot	202	8193	115	4265	80	1546	277	22573	138	3896
NC YTD Tot	15	2546	2	138	8	375	26	4863	7	621
C&F Month	102	1345	9	262	43	639	160	4630	74	653
C&F Y-T-D	1096	16079	355	7421	389	5552	1023	32209	274	6531
C&F NC YTD*	51	4998	5	979	25	2025	75	8523	26	1414

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1351	0	283	0	629	0	701	0	198
2710003070	0	12	0	5	0	7	0	234	0	55
8428900010	0	0	3	232	1	4	0	0	0	0
8456100000	0	0	0	0	1	195	14	305	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	0	0	0	0	0	0	1	95	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	5	116
300000	6	45	0	0	0	0	0	0	3	10
400000	0	0	0	0	0	0	0	0	0	0
8479899040	1	10	0	0	3	258	0	0	0	0
900040	0	0	0	6	0	4	0	0	0	0
8537100030	0	0	0	0	1	11	0	0	0	0
9024100000	0	111	0	57	0	33	0	115	0	0
9031100000	0	0	0	13	0	0	0	0	0	0
300000	0	11	0	0	0	0	0	137	0	0
9032810040	1035	99	691	45	47	7	6164	328	31910	104

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 89

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	5	13	0	0	0	0	1	8	4	11
8462100030	0	0	0	0	0	0	1	227	0	0
100050	1	11	0	0	0	0	0	0	9	239
210080	1	67	0	0	0	0	0	0	1	34
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	4	194	2	33
310080	0	0	0	0	0	0	0	0	1	71
390050	0	0	0	0	0	0	1	569	0	0
410080	0	0	0	0	0	0	1	133	2	404
490050	3	27	0	0	0	0	3	98	15	322
910060	0	0	0	0	0	0	0	0	1	164
910090	1	30	0	0	0	0	2	60	3	91
990030	0	0	0	0	0	0	0	0	9	884
990040	4	682	0	0	0	0	37	745	3	136
990060	5	97	0	0	0	0	5	1642	0	0
8463100080	0	0	0	0	0	0	1	5	0	0
200080	0	0	0	0	0	0	0	0	1	71
300080	4	59	0	0	0	0	5	45	31	569
900080	2	17	0	0	0	0	1	9	9	238
9800000002	0	0	0	0	1	3	1	6	16	283
9900000002	0	0	0	0	10	11	183	156	82	55
Month Tot	26	1003	0	0	11	14	246	3898	189	3606
Y-T-D Tot	1245	39704	6	977	255	8427	1097	30225	3528	69698
NC YTD Tot	60	3529	3	176	3	89	10	1158	71	6341
C&F Month	272	8418	7	8997	16	58	406	6759	569	10897
C&F Y-T-D	4157	99854	102	21901	562	13958	2979	61496	9683	109248
C&F NC YTD*	259	42419	25	3415	13	790	103	12236	216	18203

Other Manufacturing Technology

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	4732	0	9	0	605	0	4627	0	8087
2710003070	0	14	0	0	0	0	0	0	0	393
8428900010	1	90	0	0	0	0	0	0	0	0
8456100000	4	75	0	0	0	0	2	85	6	121
200000	1	24	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	2	53	0	0	0	0	4	105	2	46
300000	16	80	0	0	0	0	1	11	3	519
400000	1	61	0	0	0	0	0	0	1	13
8479899040	5	132	0	0	0	0	116	729	13	69
900040	0	91	0	0	0	0	0	82	0	129
8537100030	92	1232	0	0	0	0	16	215	14	196
9024100000	0	767	0	11	0	0	0	525	0	277
9031100000	0	17	0	0	0	0	0	31	0	316
300000	0	137	0	0	0	0	0	0	0	119
9032810040	4879	379	1215	15	280	62	2675	188	5672	431

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	1	6	0	0	1	6
Denmark	7	11	74	55	81	66
East Germany	0	0	0	0	0	0
Finland	5	37	0	0	5	37
Greece	18	190	0	0	18	190
Hungary	5	3483	0	0	5	3483
Iceland	0	0	0	0	0	0
Ireland	6	489	28	326	34	814
Luxembourg	0	0	0	0	0	0
Norway	5	36	0	0	5	36
Poland	1	597	0	0	1	597
Portugal	2	124	2	125	4	249
Romania	0	0	0	0	0	0
Sweden	1	16	2	364	3	380
Turkey	0	0	4	92	4	92
Yugoslavia	0	0	1	263	1	263
Oth Europe	0	0	0	0	0	0
TOTAL	740	28501	491	13642	1231	42142
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	1	5	1	5
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	0	0	3	34	3	34
Dominican Rep	0	0	1	21	1	21
El Salvador	0	0	0	0	0	0
Guatemala	2	66	0	0	2	66
Haiti	0	0	0	0	0	0
Honduras	1	10	6	229	7	239
Jamaica	0	0	1	10	1	10
Panama	1	100	0	0	1	100
Trinidad	2	14	0	0	2	14
Oth N & C Am.	2	22	1	11	3	33
TOTAL	973	10088	547	10410	1520	20497
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Bolivia	0	0	0	0	0	0
Chile	1	4	2	49	3	53
Colombia	22	668	8	154	30	822
Ecuador	2	6	0	0	2	6
Paraguay	0	0	0	0	0	0
Peru	0	0	6	369	6	369
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	66	2242	50	2149	116	4391
OCEANIA						
New Zealand	10	76	1	6	11	82
Oth Oceania	0	0	1	71	1	71
TOTAL	53	1629	31	350	84	1980

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	260	415	14	122	274	537
Iran	0	0	0	0	0	0
Iraq	7	684	0	0	7	684
Israel	4	61	12	296	16	357
Jordan	0	0	0	0	0	0
Kuwait	0	0	1	34	1	34
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	6	11	2	48	8	59
Philippines	1	75	3	243	4	318
Qatar	0	0	0	0	0	0
Saudi Arabia	1	17	11	486	12	503
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	1	9	0	0	1	9
Vietnam	0	0	0	0	0	0
Oth Asia	1	3	0	0	1	3
TOTAL	1070	10592	586	14614	1656	25206
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	3	31	3	186	6	217
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	2	31	1	4	3	35
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	5	62	4	191	9	253

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS
Metal Cutting Machine Tools - January 89 - December 89
RELEASED: February 28, 1990

		TOTAL YTD UNITS	TOTAL YTD $000
8456301010	Traveling wire electro-discharge machines, NC	732	60803
301030	Traveling wire electro-discharge machines, non-NC	257	16700
301050	Electro-discharge machines, n.e.c., NC	159	11229
301070	Electro-discharge machines, n.e.c., non-NC	377	15358
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	2456	201060
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	226	30291
100035	Horiz. mach. ctrs., ATC	832	136510
100045	Mach. ctrs., n.e.c.	296	42644
200010	Unit construction mach. (single station transfer), NC	31	4393
200090	Unit construction mach. (single station transfer), non-NC	15	777
300010	Multi-station transfer machines, NC	27	20051
300090	Multi-station transfer machines, non-NC	108	28948
8458110010	Horiz. lathes, multiple spindle, NC	365	51824
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	3030	227428
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	656	85013
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	88	13648
190030	Horiz. engine or toolroom lathes, non-NC	3076	29624
190050	Automatic bar and/or chucking mach., single spindle, non-NC	509	12768
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	150	6433
190090	Horiz. lathes, n.e.c., non-NC	929	13330
911060	Vertical turret lathes, multiple spindle, NC	28	12802
911080	Vertical turret lathes, n.e.c., NC	47	7499
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	4	1164
915070	Vertical lathes, excl. VTL's, n.e.c., NC	77	9317
991050	Vertical turret lathes, non-NC	65	4818
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	830	23321
8459100000	Way-type unit head machines	12	836
210080	Other drilling machines, NC	522	38961
290040	Drilling machines, multiple spindle, non-NC	125	5721
290050	Drilling machines, radial, non-NC	463	2890
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	199	1553
290090	Drilling machines, n.e.c., non-NC	472	24979
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	16	3932
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	216	15980
310070	Boring-milling mach., n.e.c., NC	58	5706
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	42	1612
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	163	6654
400040	Boring machines, vertical, NC	17	6395
400050	Boring machines, vertical, non-NC	75	946
400070	Boring machines, n.e.c., NC	12	2790
400080	Boring machines, n.e.c., non-NC	228	13079
510080	Milling machines, knee type, NC	1090	16338
590030	Milling machines, knee type, non-NC	3737	31813
610080	Milling machines, excl. knee type, n.e.c., NC	504	43058
690050	Milling machines, profile, dup., or die sinking, non-NC	107	859
690070	Milling machines, bed type, non-NC	96	2889
690090	Milling machines, n.e.c., non-NC	648	17511
700020	Threading or tapping machines, n.e.c., NC	296	15073
700080	Threading or tapping machines, n.e.c., non-NC	289	9190
8460110080	Flat surface grinding mach., NC	159	11750
190010	Flat surface grinding mach., recip.-table type, non-NC	1123	12369
190050	Flat surface grinding mach., n.e.c., non-NC	1813	19639
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	547	91743
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	457	14689
290030	Grinding mach., internal cylindrical, non-NC	146	12984
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	1178	45541
310080	Sharpening machines (tool & cutter grinding), NC	342	4027
390050	Sharpening machines (tool & cutter grinding), non-NC	729	9890
400060	Honing or lapping machines, NC	35	6889
400080	Honing or lapping machines, non-NC	195	6760
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	52	4498
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1329	32821
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	6	109
200010	Shaping or slotting machines, NC	36	5571
200090	Shaping or slotting machines, non-NC	55	3450
300060	Broaching machines, NC	13	6366
300080	Broaching machines, non-NC	44	4344
401050	Gear hobbers	103	15952
401070	Gear shapers	19	3034
401090	Gear cutting machines, n.e.c.	443	1546
405060	Gear grinding or finishing machines	183	24944
500050	Sawing or cutting-off machines, NC	171	4211
500090	Sawing or cutting-off machines, non-NC	1809	25975
9000000001	Metal cutting machine tools, n.e.c.	706	17415
9800000001	Used or rebuilt machine tools	6482	38579
9900000001	Machine tools valued at less than $2,500	715675	97494
	Y-T-D Cutting Total	758607	1859106
	NC Y-T-D Cutting Total	13189	1203314

Please see notes on last page
of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - January 89 - December 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	2	74	0	0	0	0	0	0	0	0
301030	0	0	0	0	7	205	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	3	25	2	3	12	214	1	8
8457100015	0	0	0	0	1	77	14	1295	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	283	1	16	0	0	58	2852
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	217
300010	0	0	0	0	0	0	0	0	5	2962
300090	0	0	0	0	17	3523	0	0	7	3544
8458110010	0	0	0	0	2	291	0	0	1	239
110030	0	0	11	209	0	0	6	364	0	0
110050	0	0	3	9	0	0	20	1606	0	0
110090	0	0	0	0	0	0	2	128	1	382
190030	0	0	247	1955	23	207	0	0	1	7
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	3	525	3079	1	316	3	19	8	313
911060	0	0	0	0	0	0	0	0	1	628
911080	0	0	0	0	0	0	0	0	1	45
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	1	16	0	0	0	0	5	1585
991050	0	0	8	30	0	0	0	0	4	8
995090	0	0	89	424	27	338	1	95	26	709
8459100000	0	0	0	0	0	0	0	0	2	141
210080	0	0	0	0	104	396	0	0	12	1004
290040	0	0	0	0	0	0	0	0	27	113
290050	0	0	42	339	1	3	0	0	15	98
290070	0	0	0	0	0	0	0	0	0	0
290090	3	29	0	0	17	502	47	12259	46	1490
310010	0	0	1	230	0	0	0	0	0	0
310040	0	0	20	460	2	105	0	0	21	1449
310070	0	0	0	0	1	4	0	0	10	738
390040	0	0	0	0	0	0	0	0	5	163
390050	0	0	0	0	6	108	0	0	21	1569
400040	0	0	0	0	0	0	0	0	1	32
400050	0	0	0	0	0	0	0	0	59	782
400070	0	0	0	0	0	0	0	0	3	37
400080	20	84	0	0	30	412	0	0	74	640
510080	4	124	0	0	1	4	2	6	0	0
590030	0	0	0	0	1	3	26	267	19	3271
610080	0	0	0	0	3	2936	10	26	10	2026
690050	0	0	0	0	0	0	0	0	1	4
690070	0	0	0	0	0	0	0	0	0	0
690090	4	747	0	0	10	122	2	53	17	1632
700020	5	185	0	0	0	0	0	0	5	61
700080	0	0	0	0	0	0	21	242	0	0
8460110080	0	0	3	47	0	0	2	49	5	893
190010	0	0	0	0	0	0	0	0	91	1434
190050	0	0	3	79	26	191	11	34	41	505
210080	0	0	0	0	1	10	4	296	5	528
290010	0	0	1	114	79	494	1	105	11	254
290030	0	0	1	24	0	0	0	0	5	1165
290050	1	5	0	0	181	2660	13	238	36	2056
310080	0	0	0	0	0	0	1	22	2	22
390050	0	0	1	6	61	225	17	216	23	235
400060	0	0	0	0	3	30	0	0	0	0
400080	0	0	0	0	1	5	0	0	1	144
900060	0	0	0	0	5	21	0	0	11	165
900080	1	36	4	14	32	564	54	249	199	5788
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	8	64	0	0	0	0
300060	0	0	0	0	0	0	0	0	1	131
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	5	351
401070	0	0	0	0	0	0	0	0	1	14
401090	0	0	0	0	1	12	1	5	91	442
405060	3	925	0	0	2	18	0	0	15	92
500050	0	0	0	0	0	0	0	0	2	12
500090	21	158	2	17	280	3881	20	488	237	1295
9000000001	2	8	0	0	37	1102	165	2844	10	916
9800000001	53	3080	0	0	1706	1457	17	132	63	577
9900000001	261	35	89	55	967	520	1162	713	35220	6307
Y-T-D Tot	381	5492	1055	7416	3647	20824	1634	21968	36543	52076
NC YTD Tot	11	383	40	1254	124	3890	61	3794	160	15792

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - January 89 - December 89

	Japan		korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	654	53986	0	0	0	0	2	75	0	0
301030	109	8551	0	0	0	0	1	24	0	0
301050	106	7945	0	0	0	0	0	0	0	0
301070	89	3340	0	0	0	0	12	177	0	0
8457100015	1730	156873	32	1585	176	9021	1	117	0	0
100025	136	25064	1	83	0	0	1	91	0	0
100035	651	106942	10	1091	0	0	0	0	0	0
100045	41	10249	9	457	1	51	5	331	8	2053
200010	15	2661	9	786	0	0	0	0	0	0
200090	9	391	0	0	0	0	0	0	2	44
300010	5	8124	0	0	0	0	0	0	0	0
300090	34	12832	0	0	0	0	0	0	0	0
8458110010	265	37344	0	0	0	0	0	0	0	0
110030	2715	209471	75	4317	3	31	0	0	0	0
110050	595	80091	6	244	0	0	1	543	0	0
110090	32	3572	12	1393	0	0	2	238	1	271
190030	26	1300	193	2106	234	2425	76	731	0	0
190050	91	8194	0	0	0	0	1	13	0	0
190070	1	266	0	0	0	0	0	0	0	0
190090	49	2473	23	995	0	0	4	273	0	0
911060	20	3693	1	83	0	0	0	0	0	0
911080	41	6352	2	123	0	0	0	0	1	290
915050	2	482	0	0	0	0	0	0	0	0
915070	27	3444	8	711	0	0	1	344	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	35	2503	177	9540	0	0	23	534	0	0
8459100000	4	153	2	186	0	0	0	0	1	118
210080	373	31070	1	4	0	0	2	10	0	0
290040	75	4561	0	0	0	0	0	0	0	0
290050	6	199	0	0	0	0	16	155	62	253
290070	14	526	11	48	0	0	37	147	4	12
290090	119	5271	0	0	0	0	134	1078	16	53
310010	3	955	0	0	0	0	0	0	0	0
310040	43	1339	0	0	0	0	0	0	0	0
310070	4	308	0	0	0	0	2	151	0	0
390040	4	654	0	0	0	0	1	179	2	17
390050	8	2078	1	18	0	0	0	0	0	0
400040	8	5533	0	0	4	163	0	0	0	0
400050	2	88	0	0	0	0	0	0	1	9
400070	9	2754	0	0	0	0	0	0	0	0
400080	15	4288	1	30	0	0	0	0	2	12
510080	25	2785	0	0	0	0	503	3478	1	4
590030	45	2455	3	24	0	0	969	6778	5	128
610080	113	22260	0	0	20	800	7	277	1	23
690050	4	414	0	0	0	0	0	0	0	0
690070	15	777	0	0	0	0	2	112	2	237
690090	59	3728	2	23	0	0	115	1863	4	450
700020	268	14048	4	131	0	0	0	0	0	0
700080	171	4349	0	0	0	0	6	273	5	34
8460110080	55	5325	0	0	0	0	0	0	0	0
190010	322	3856	0	0	421	4792	0	0	0	0
190050	138	4703	9	51	5	109	8	286	9	40
210080	283	59823	0	0	0	0	1	3	0	0
290010	80	5260	0	0	0	0	0	0	12	1181
290030	6	614	0	0	0	0	2	141	3	733
290050	180	20618	0	0	13	163	2	78	34	3063
310080	14	734	0	0	0	0	1	3	1	42
390050	57	688	0	0	0	0	3	12	1	6
400060	14	5334	0	0	0	0	0	0	0	0
400080	24	1590	0	0	0	0	0	0	13	294
900060	22	3289	0	0	0	0	1	110	3	17
900080	197	7475	109	681	1	8	8	623	104	605
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	2	24
200010	33	5495	0	0	0	0	0	0	0	0
200090	5	463	0	0	13	330	0	0	1	3
300060	10	2317	0	0	0	0	0	0	0	0
300080	3	800	0	0	0	0	0	0	0	0
401050	11	1292	9	407	0	0	0	0	0	0
401070	4	690	0	0	0	0	0	0	0	0
401090	24	6	0	0	0	0	0	0	0	0
405060	54	4933	0	0	0	0	0	0	1	4
500050	102	3353	0	0	0	0	0	0	0	0
500090	314	9602	1	9	0	0	14	66	13	164
9000000001	120	4167	1	7	0	0	6	144	6	96
9800000001	822	12992	10	193	1	3	3	30	120	1053
9900000001	62615	10475	5702	2336	4	4	190	48	2319	2306
Y-T-D Tot	74374	1042630	6424	27662	896	17898	2163	19536	2760	13639
NC YTD Tot	8419	885245	170	11006	204	10065	530	5770	17	2723

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - January 89 - December 89

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	65	6529	8	72	0	0	1	67	0	0
301030	58	6991	71	653	0	0	1	275	0	0
301050	0	0	2	42	39	1429	2	1696	10	117
301070	85	5638	95	1478	10	123	42	3908	26	444
8457100015	0	0	103	7572	272	14345	62	7491	65	2685
100025	0	0	29	1689	50	2913	0	0	9	450
100035	1	255	8	741	5	599	156	26843	1	40
100045	13	5927	32	2008	36	1908	60	14222	31	2287
200010	0	0	0	0	0	0	5	746	2	200
200090	0	0	0	0	3	124	0	0	0	0
300010	1	208	0	0	0	0	12	8375	4	381
300090	31	3903	0	0	2	129	16	4960	1	57
8458110010	4	145	6	321	3	461	84	13023	0	0
110030	29	2519	142	7102	15	1544	1	162	33	1709
110050	0	0	16	901	5	642	8	907	2	71
110090	4	674	3	179	1	37	27	6077	3	698
190030	0	0	966	7762	407	4998	1	3	902	8130
190050	9	1140	360	2887	2	10	9	317	37	208
190070	47	4342	71	549	18	665	3	423	10	187
190090	1	57	25	216	216	2807	17	1788	56	992
911060	0	0	0	0	1	43	5	8355	0	0
911080	0	0	0	0	0	0	2	690	0	0
915050	0	0	0	0	0	0	2	682	0	0
915070	5	194	8	392	6	114	7	2208	9	308
991050	16	3084	15	41	1	74	7	1507	14	73
995090	5	465	40	342	62	1652	51	1615	294	5103
8459100000	0	0	0	0	2	200	1	37	0	0
210080	3	1223	2	43	7	226	17	4968	1	17
290040	5	366	10	39	0	0	6	278	2	365
290050	0	0	168	884	2	8	10	177	141	774
290070	0	0	12	71	3	11	50	458	68	281
290090	6	77	12	191	13	122	50	3731	9	174
310010	0	0	5	73	7	2674	0	0	0	0
310040	3	1427	0	0	2	588	69	9187	56	1425
310070	3	412	0	0	3	2477	29	1453	6	163
390040	0	0	0	0	1	31	15	367	14	201
390050	0	0	73	329	1	99	23	1627	30	825
400040	0	0	0	0	3	631	0	0	1	36
400050	0	0	12	42	0	0	1	25	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	5	1380	0	0	22	2609	37	2261	22	1364
510080	1	237	281	2909	206	5460	14	941	52	388
590030	1	28	1686	10039	617	2607	14	4011	351	2202
610080	2	2629	226	3961	20	473	22	6578	70	1067
690050	0	0	96	414	0	0	5	21	1	6
690070	0	0	73	833	1	8	2	920	1	3
690090	14	883	99	563	38	553	35	4350	249	2545
700020	0	0	12	107	1	533	0	0	1	7
700080	6	105	6	32	16	753	52	3179	6	223
8460110080	7	569	37	431	13	925	29	3431	8	80
190010	0	0	201	779	8	137	46	1242	34	129
190050	33	780	1343	8774	83	1134	26	1004	78	1950
210080	51	8079	10	448	15	349	177	22207	0	0
290010	54	4989	11	75	33	650	125	1302	50	265
290030	30	1433	6	62	1	43	43	8258	49	510
290050	53	3894	81	747	87	1382	421	9688	76	947
310080	23	198	213	1452	26	65	58	1381	3	108
390050	61	1303	62	402	125	910	264	4498	54	1386
400060	5	114	0	0	1	24	12	1387	0	0
400080	7	157	0	0	71	992	63	3329	15	250
900060	1	313	1	33	0	0	3	495	5	55
900080	71	3392	52	510	176	2286	220	7249	101	3339
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	54	3	31	0	0
200010	0	0	1	12	0	0	0	0	2	64
200090	1	18	13	102	2	769	8	1316	4	386
300060	0	0	0	0	2	3918	0	0	0	0
300080	0	0	0	0	32	2383	9	1161	0	0
401050	6	25	0	0	0	0	64	13767	8	111
401070	1	12	0	0	1	14	10	2261	2	43
401090	202	979	4	4	18	10	87	88	15	2
405060	74	7981	0	0	0	0	18	9490	16	1501
500050	0	0	6	46	2	12	52	719	7	69
500090	11	169	330	1664	97	453	282	6967	187	1044
9000000001	8	661	10	69	55	602	91	5736	195	1063
9800000001	47	874	1220	988	821	6979	249	9088	1350	1133
9900000001	581	195	467819	60045	3498	1899	7467	4239	127781	8317
Y-T-D Tot	1760	86971	476193	132120	7287	80673	10860	271243	132630	58958

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 89 - December 89

RELEASED: February 28, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000
8454300010	Die casting machines	4105	44684
8462100030	Headers and upsetters, including cold headers	138	11618
100050	Forging or die stamping machines, and hammers, n.e.c.	1416	1502
210080	Bending, folding, straight, or flat. mach., incl presses, NC	991	37184
290030	Press brakes, non-NC	374	9764
290040	Bending rolls, non-NC	77	2022
290050	Bending, folding, straight, or flat, n.e.c., non-NC	1071	45446
310080	Shearing machines, NC	57	6661
390050	Shearing machines, non-NC	738	14001
410080	Punching or notching mach., incl. comb. punch & shear, NC	362	40916
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	643	13688
910060	Hydraulic presses, NC	43	6466
910090	Hydraulic presses, non-NC	684	23578
990030	Presses, n.e.c., NC	93	6498
990040	Presses, mechanical, non-NC	66	23337
990060	Presses, n.e.c., non-NC	1085	62903
8463100080	Draw benches for bars, tubes, profiles, wire or the like	39	5009
200080	Thread rolling machines	62	3086
300080	Machines for working wire	742	35760
900080	Metal forming machine tools, n.e.c.	799	29113
9800000002	Used or rebuilt machine tools	3037	17486
9900000002	Machine tools valued at less than $2,500	22580	6799
	Y-T-D Forming Total	39202	547543
	NC Y-T-D Forming Total	1546	97727
	Cutting and Forming Totals:		
	Y-T-D Total	797809	2406649
	NC Y-T-D Total	14735	1301041

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000
1000000000	Machine tool parts and accessories	0	579435
2710003070	Quenching or cutting oils	0	79
8428900010	Industrial robots for lifting, handling, loading or unload	1981	43625
8456101010	Laser, light or photon beam for working metal, NC	121	18124
101020	Laser, light or photon beam for working metal, non-NC	48	4954
105000	Laser, light or photon beam for other materials	2125	6935
201010	Ultrasonic processes for working metal, NC	6	952
201050	Ultrasonic processes for working metal, non-NC	12	29
205000	Ultrasonic processes for working other materials	148	1163
8477106010	Injection molding mach., for rubber or oth. thermosetting	1029	90553
106050	Injection molding mach., for thermoplastics	2685	268022
200010	Extruders for rubber or other thermosetting materials	216	24197
200050	Extruders for processing thermoplastics	731	43996
300000	Blow molding machines	302	43082
400000	Vacuum-molding and other thermoforming machines	315	15800
8479899040	Industrial robots, n.e.c.	23945	137767
908040	Industrial robot parts	0	47214
8537100030	Numerical controls for controlling machine tools	13534	52862
9024100000	Machines and appliances for testing metals	0	14217
9031100000	Machines for balancing mechanical parts	0	10405
300000	Profile projectors	0	4925
9032810020	Industrial process control instr., hydraulic	211812	2846
810060	Industrial process control instr., pneumatic	168982	3419

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: '0' in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 89 - December 89

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	2457	2374	0	0	50	1412
8462100030	4	2010	0	0	1	14	0	0	8	880
100050	1	1	0	4	221	3885	17	195	20	510
210080	34	1290	0	0	21	1496	7	110	19	2173
290030	43	2929	0	0	148	4550	0	0	0	0
290040	0	0	0	0	1	674	0	0	9	287
290050	5	125	0	4	317	8723	6	65	116	2397
310080	15	381	0	0	1	60	0	0	0	0
390050	88	1345	0	0	71	1951	10	234	14	1592
410080	0	0	0	0	0	0	1	126	10	1219
490050	2	808	0	0	87	1373	0	59	44	308
910060	0	0	0	0	4	461	0	0	0	0
910090	1	1	4	0	58	2148	1	117	68	1440
990030	0	0	0	0	1	7	0	0	47	350
990040	0	0	0	0	0	0	0	67	0	0
990060	61	4887	14	4741	116	16205	5	116	45	1922
8463100080	5	503	0	0	7	12	1	45	3	492
200080	0	0	0	0	0	0	0	111	0	0
300080	146	8856	4	132	29	2086	[illegible]	111	78	7645
900080	2	10	6	15	44	2157	20	135	107	3547
9800000002	62	1728	0	0	258	2388	10	204	59	1392
9900000002	4	4	203	114	478	154	59	31	606	254
Y-T-D Tot	527	22677	254	4520	4493	50549	133	1796	1523	27818
NC YTD Tot	49	1520	0	0	29	2024	10	235	76	3742
C&F Y-T-D	908	28169	1309	11936	8140	71472	1767	23764	17866	79894
C&F NC YTD	60	2054	40	1254	153	5914	71	4030	236	19533

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
1000000000	0	3950	0	382	0	95866	0	14629	0	15944
2710003070	0	0	0	0	0	18	0	0	0	0
8428900010	0	0	3	101	282	5738	32	854	33	684
8456101010	0	0	0	0	0	0	2	268	2	789
101020	0	0	0	0	1	5	0	0	0	0
105000	0	0	0	0	7	407	1	110	6	220
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	7	7
205000	0	0	0	0	100	1	0	0	1	181
8477106010	1	22	0	0	53	7219	55	7040	73	5104
106050	0	0	0	0	364	41431	5	687	203	18286
200010	0	0	1	2	8	76	26	2784	14	1059
200050	1	198	0	0	39	2521	4	139	25	4501
300000	0	0	1	103	25	2044	30	6900	14	1530
400000	0	0	0	0	16	419	2	8	2	42
8479899040	0	0	0	0	257	3169	134	676	8	778
908040	0	15	0	0	0	1053	0	1674	0	827
8537100030	0	0	0	0	14	18	0	0	7201	860
9024100000	0	2	0	50	0	648	0	192	0	383
9031100000	0	0	0	23	0	128	0	92	0	110
300000	0	0	0	0	0	0	0	0	0	47
9032810020	0	0	0	0	507	41	11	69	1	1
810060	0	0	0	0	4357	226	1062	79	9289	178

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 89 - December 89

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	385	34183	1	87	0	0	0	0	0	0
8462100030	105	6433	0	0	0	0	0	0	0	0
100050	478	61817	17	232	7	22	8	8	0	0
210080	751	24132	0	0	0	0	2	71	11	1069
290030	47	1216	0	0	17	222	11	102	0	0
290040	25	516	0	0	0	0	0	0	24	295
290050	180	17675	2	16	0	0	11	128	113	3728
310080	11	2138	0	0	0	0	0	0	1	71
390050	78	2820	7	117	41	457	17	125	13	132
410080	148	19570	0	0	0	0	0	0	1	24
490050	140	4826	1	5	0	0	174	1673	39	899
910060	26	3404	0	0	0	0	0	0	3	809
910090	247	10904	3	45	1	138	0	0	16	1978
990030	14	4723	0	0	0	0	0	0	0	0
990040	45	22517	0	0	0	0	0	0	2	500
990060	352	45686	0	0	0	0	7	110	36	374
8463100080	7	2462	0	0	0	0	0	0	0	0
200080	21	1630	0	0	0	0	12	293	0	0
300080	325	10449	0	0	1	21	1	45	2	85
900080	336	12713	0	0	0	0	3	40	12	316
9800000002	119	3262	8	105	0	0	46	191	10	510
9900000002	1697	1352	52	26	1	1	374	309	136	88
Y-T-D Tot	5537	294529	91	635	68	862	666	3094	419	10879
NC YTD Tot	950	53967	0	0	0	0	2	71	16	1974
C&F Y-T-D	79911	1337159	6515	28297	964	18760	2829	22630	7179	24518
C&F NC YTD	9369	939212	170	11006	204	10065	532	5641	33	4697

Other Manufacturing Technology

	Japan		Korea		Singapore		Spain		Sweden	
1000000000	0	175439	0	2579	0	7650	0	3106	0	10439
2710003070	0	25	0	0	0	0	0	2	0	0
8428900010	977	23518	0	0	0	0	0	0	111	4727
8456101010	73	14539	0	0	0	0	0	0	0	0
101020	1	309	0	0	1	180	0	0	0	0
105000	688	962	0	0	0	0	0	0	0	0
201010	6	952	0	0	0	0	0	0	0	0
201050	2	7	1	6	0	0	0	0	1	3
205000	19	378	1	1	2	2	0	0	0	0
8477106010	464	46346	11	784	3	205	0	0	1	4
106050	870	125786	65	2526	7	284	7	44	1	50
200010	53	11019	1	19	0	0	1	4	1	16
200050	64	6991	4	76	0	0	0	0	1	77
300000	47	13517	2	69	0	0	11	754	0	0
400000	62	3132	0	0	0	0	0	0	3	24
8479899040	17634	115295	0	0	3	16	0	0	100	4400
908040	0	22925	0	9	0	3	0	0	0	1075
8537100030	10662	50842	120	7	0	0	51	33	0	0
9024100000	0	6158	0	0	0	0	0	0	0	395
9031100000	0	8059	0	24	0	12	0	0	0	10
300000	0	1889	0	27	0	0	0	0	0	0
9032810020	123	196	19850	591	0	0	0	0	0	0
810060	993	698	55500	188	5	1	0	3	6114	1206

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 89 - December 89

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	13	1246	2	45	90	539	31	1744	1070	1055
8462100030	0	0	3	78	1	364	7	1786	1	53
100050	13	73	21	57	93	5160	143	7126	363	2413
210080	7	335	17	242	8	347	55	3519	47	2396
290030	0	0	1	5	1	61	8	37	48	641
290040	0	0	3	44	2	14	5	51	6	142
290050	18	1561	47	1824	25	2457	108	5057	102	1699
310080	4	1031	0	0	0	0	12	2538	13	443
390050	2	464	29	37	207	1179	85	2686	56	801
410080	17	3330	5	250	2	222	159	13431	17	2746
490050	2	12	55	1506	21	398	120	1901	6	121
910060	0	0	1	458	0	0	6	1297	3	36
910090	11	1481	100	512	17	1515	54	2788	101	458
990030	5	13	2	96	0	0	12	1000	12	309
990040	1	16	1	20	14	61	1	6	0	0
990060	11	552	27	643	35	444	113	6520	36	1201
8463100080	0	0	0	0	0	0	19	1477	2	18
200080	0	0	10	95	2	20	13	931	2	6
300080	22	1061	21	315	28	966	78	5557	13	529
900080	31	3356	21	256	71	782	92	4578	44	1242
9800000002	94	820	1929	252	142	2131	223	3140	87	1358
9900000002	1410	207	9640	2529	422	132	495	315	7003	1280
Y-T-D Tot	1687	17506	11941	9355	1182	16793	1849	67485	9032	18946
NC YTD Tot	33	4713	25	1046	10	568	254	21785	92	5930
C&F Y-T-D	3447	104478	488134	141476	8469	97465	12709	338728	141662	77904
C&F NC YTD	254	36362	1176	11581	778	43191	1182	167836	477	18463

Other Manufacturing Technology

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	33513	0	15926	0	36303	0	117373	0	34738
2710003070	0	2	0	0	0	0	0	32	0	0
8428900010	40	1418	61	44	61	2757	346	2290	35	1491
8456101010	16	1316	0	0	17	453	2	185	9	575
101020	1	430	0	0	6	602	37	3320	1	107
105000	29	42	0	0	105	1019	1108	2268	181	1907
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	1	6
205000	22	160	0	0	3	439	0	0	0	0
8477106010	38	1679	94	4183	17	243	157	14418	62	3286
106050	55	11843	120	6351	39	1693	726	41507	212	17534
200010	20	1070	11	406	19	2327	54	5110	7	304
200050	21	1539	45	1112	138	2968	306	23062	22	812
300000	0	0	15	370	0	0	152	16940	5	855
400000	2	115	3	31	55	2577	165	8514	5	938
8479899040	72	3044	7	216	124	550	1793	7048	3813	2574
908040	0	1588	0	253	0	3446	0	9986	0	4359
8537100030	10	82	600	1	416	74	447	879	11	64
9024100000	0	952	0	2	0	1908	0	1580	0	1943
9031100000	0	135	0	48	0	222	0	858	0	684
300000	0	202	0	0	0	1700	0	788	0	272
9032810020	4015	119	0	0	15929	323	168	275	171193	1225
810060	141	6	33865	202	9	10	54909	484	718	141

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 89 December 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	1836	8595	194	1941	2030	10536
Bulgaria	0	0	0	0	0	0
Czechoslovakia	70	1066	2	24	72	1090
Denmark	509	1597	70	729	579	2326
East Germany	481	2481	1	5	482	2486
Finland	843	1818	139	4785	982	6603
Hungary	47	2827	0	0	47	2827
Ireland	234	82	7	24	241	106
Luxembourg	1	12	10	512	11	525
Netherlands	651	5477	220	2703	871	8180
Norway	6	85	12	537	18	622
Poland	265	4108	5	6	270	4114
Portugal	133	447	79	973	212	1421
Romania	0	0	0	0	0	0
USSR	2	43	2	8	4	51
Yugoslavia	637	4278	6	714	643	4992
Oth Europe	70	870	323	1292	393	2162
TOTAL	69173	585386	8856	182300	78029	767686
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	1	2	1	4	2	6
Mexico	1027	405	468	1774	1495	2179
Oth N & C Am.	11	24	10	44	21	68
TOTAL	4686	21255	4972	52471	9658	73725
SOUTH AMERICA						
Argentina	22	221	2	55	24	286
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	1	8	0	0	1	8
Oth South Am.	0	0	0	0	0	0
TOTAL	1078	7646	256	4585	1334	12231
OCEANIA						
Australia	194	2205	20	468	214	2674
New Zealand	53	33	8	365	61	418
Oth Oceania	0	0	0	0	0	0
TOTAL	247	2235	28	833	275	3067

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 89 December 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	124813	14770	6055	531	130868	15301
Hong Kong	388	981	222	204	610	1186
India	207	1029	23	31	230	1060
Indonesia	1	3	0	0	1	3
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	116	5236	1100	975	1216	6211
Malaysia	0	0	2	58	2	58
Pakistan	0	0	2	1	2	1
Philippines	1	4	12	2	13	5
Thailand	1	59	0	0	1	59
Oth Asia	0	0	1	2	1	2
TOTAL	683414	1242391	25054	307185	708468	1549576
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	5	50	32	167	37	217
Swaziland	0	0	4	3	4	3
Oth Africa	4	124	0	0	4	124
TOTAL	9	174	36	170	45	344

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS

Metal Cutting Machine Tools - January 89 - December 89

RELEASED: February 28, 1990

		TOTAL YTD UNITS	TOTAL YTD $000
8456300000	Electro-discharge machines	344	5082
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	31	4918
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	9	1343
100035	Horiz. mach. ctrs., ATC	45	19679
100045	Mach. ctrs., n.e.c.	295	19796
200010	Unit construction mach. (single station transfer), NC	3	2683
200090	Unit construction mach. (single station transfer), non-NC	8	4445
300010	Multi-station transfer machines, NC	10	17348
300090	Multi-station transfer machines, non-NC	18	3918
8458110010	Horiz. lathes, multiple spindle, NC	4	634
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	184	15356
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	50	9433
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	8	1767
190030	Horiz. engine or toolroom lathes, non-NC	96	2221
190050	Automatic bar and/or chucking mach., single spindle, non-NC	20	109
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	42	2945
190090	Horiz. lathes, n.e.c., non-NC	266	3588
911060	Vertical turret lathes, multiple spindle, NC	0	0
911080	Vertical turret lathes, n.e.c., NC	5	863
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	539
915070	Vertical lathes, excl. VTL's, n.e.c., NC	13	1448
991050	Vertical turret lathes, non-NC	23	698
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	71	3537
8459100000	Way-type unit head machines	17	3318
210080	Other drilling machines, NC	107	7765
290040	Drilling machines, multiple spindle, non-NC	22	1240
290050	Drilling machines, radial, non-NC	25	963
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	68	953
290090	Drilling machines, n.e.c., non-NC	531	6009
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	7	2588
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	4	738
310070	Boring-milling mach., n.e.c., NC	33	2492
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	3	247
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	103	2100
400040	Boring machines, vertical, NC	4	1294
400050	Boring machines, vertical, non-NC	41	1167
400070	Boring machines, n.e.c., NC	1	1350
400080	Boring machines, n.e.c., non-NC	55	3618
510080	Milling machines, knee type, NC	25	1699
590030	Milling machines, knee type, non-NC	54	2342
610080	Milling machines, excl. knee type, n.e.c., NC	60	8177
690050	Milling machines, profile, dup., or die sinking, non-NC	24	1290
690070	Milling machines, bed type, non-NC	55	7023
690090	Milling machines, n.e.c., non-NC	303	6716
700020	Threading or tapping machines, n.e.c., NC	34	2030
700080	Threading or tapping machines, n.e.c., non-NC	286	6635
8460110080	Flat surface grinding mach., NC	153	11682
190010	Flat surface grinding mach., recip.-table type, non-NC	117	1823
190050	Flat surface grinding mach., n.e.c., non-NC	98	8715
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	321	27305
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	45	5835
290030	Grinding mach., internal cylindrical, non-NC	59	5919
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	474	21481
310080	Sharpening machines (tool & cutter grinding), NC	57	5741
390050	Sharpening machines (tool & cutter grinding), non-NC	1704	11593
400060	Honing or lapping machines, NC	2	58
400080	Honing or lapping machines, non-NC	741	9784
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	35	3653
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	630	14786
8461100060	Planing machines, NC	6	3712
100080	Planing machines, non-NC	176	6065
200010	Shaping or slotting machines, NC	0	0
200090	Shaping or slotting machines, non-NC	56	1356
300060	Broaching machines, NC	4	369
300080	Broaching machines, non-NC	53	2364
401050	Gear hobbers	78	6909
401070	Gear shapers	57	5561
401090	Gear cutting machines, n.e.c.	87	32273
405060	Gear grinding or finishing machines	62	9141
500050	Sawing or cutting-off machines, NC	17	1907
500090	Sawing or cutting-off machines, non-NC	1073	14108
9000000001	Metal cutting machine tools, n.e.m.	371	13697
9800000001	Used or rebuilt machine tools	6031	53927
9900000001	Machine tools valued at less than $2,500	40171	14963
Please see notes on last page	Y-T-D Cutting Total	55639	488833
of the metal forming section.	NC Y-T-D Cutting Total*	1633	184588

U.S. EXPORTS

Metal Cutting Machine Tools - January 89 - December 89

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	2	17	3	3	2	4	2	49	34	1009
8457100015	0	0	0	0	0	0	0	0	17	2722
100025	0	0	0	0	0	0	0	0	7	1128
100035	0	0	4	380	0	0	1	296	11	7071
100045	1	76	0	0	39	4050	2	204	35	2792
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	4	0	0	0	0	0	1	210
300010	0	0	0	0	0	0	0	0	1	167
300090	0	0	0	0	0	0	0	0	2	229
8458110010	0	0	0	0	0	0	0	0	0	0
110030	3	188	0	0	4	369	2	187	22	2034
110050	3	541	0	0	0	0	3	658	22	3629
110090	0	0	0	0	0	0	0	0	3	310
190030	2	40	0	0	0	0	0	0	24	424
190050	0	0	0	0	0	0	2	16	0	0
190070	0	0	0	0	0	0	0	0	5	412
190090	6	42	0	0	0	0	0	0	43	629
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	102	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	12	0	0	1	133	3	93	9	783
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	12	852
290040	2	110	0	0	0	0	1	82	9	383
290050	0	0	0	0	0	0	0	0	1	41
290070	0	0	0	0	0	0	0	0	8	33
290090	2	12	0	0	0	0	0	0	323	3047
310010	0	0	0	0	0	0	2	790	1	470
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	4	342
390040	0	0	0	0	0	0	0	0	2	217
390050	0	0	0	0	0	0	0	0	12	192
400040	0	0	0	0	1	687	0	0	0	0
400050	0	0	0	0	1	11	0	0	6	113
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	4	600	23	753
510080	0	0	0	0	0	0	8	328	6	368
590030	20	1251	0	0	0	0	2	49	11	355
610080	2	210	0	0	0	0	22	1992	4	243
690050	0	0	1	101	0	0	0	0	4	204
690070	4	1049	0	0	0	0	0	0	27	2474
690090	2	19	0	0	0	0	48	1286	37	1085
700020	0	0	0	0	0	0	0	0	7	185
700080	28	426	0	0	11	1106	0	0	67	368
8460110080	0	0	0	0	1	44	0	0	12	1304
190010	0	0	0	0	0	0	45	523	26	266
190050	1	115	9	203	0	0	9	571	12	508
210080	1	365	1	266	0	0	3	417	44	2226
290010	1	45	0	0	0	0	0	0	22	2690
290030	0	0	0	0	0	0	1	317	2	380
290050	4	462	0	0	14	178	1	17	50	1503
310080	0	0	0	0	0	0	0	0	5	795
390050	35	661	0	0	0	0	33	115	237	2017
400060	0	0	0	0	0	0	0	0	0	0
400080	51	401	7	84	29	345	4	19	44	1126
900060	3	147	0	0	0	0	0	0	3	780
900080	15	432	4	38	1	33	0	0	51	1249
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	47	0	0	0	1	11	254	10	954
200010	0	0	0	0	0	0	0	0	0	0
200090	5	297	0	0	0	0	0	0	21	417
300060	1	18	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	31	886
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	1	190	15	914
401090	2	1100	0	0	1	188	1	59	1	100
405060	0	0	0	0	0	0	0	0	7	932
500050	0	0	0	0	0	0	0	0	13	386
500090	30	397	0	0	1	9	27	519	287	3109
9000000001	4	292	0	0	1	22	25	289	42	736
9800000001	160	1854	4	110	1	385	56	1494	805	6455
9900000001	445	311	87	11	78	48	257	163	21638	3161
Y-T-D Tot	821	11154	66	1271	154	7626	581	11815	24189	68369
NC YTD Tot*	15	1646	4	646	49	5149	49	4871	243	28133

Please see notes on last page of the metal forming section

U.S. EXPORTS

Metal Cutting Machine Tools - January 89 - December 89

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	1	73	2	65	0	0	23	19
8457100015	0	0	0	0	1	290	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	9	3729	1	3047	0	0	0	0	1	695
100045	2	606	0	0	0	0	1	560	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	2	635	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	2	456	0	0
110030	28	2407	25	2005	1	162	0	0	0	0
110050	8	1940	1	160	0	0	0	0	0	0
110090	2	982	0	0	0	0	0	0	0	0
190030	2	200	6	205	1	71	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	1	50	0	0	0	0	0	0
190090	0	0	0	0	2	18	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	155	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	2	76	1	12	2	114	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	1	39
210080	1	30	0	0	1	355	0	0	1	30
290040	1	74	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	3	130	0	0
290070	0	0	1	9	0	0	0	0	0	0
290090	1	50	7	86	2	42	0	0	6	337
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	6	619	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	70	1744	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	5	586	0	0	0	0	0	0	0	0
400070	1	1350	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	1	17	0	0	0	0	0	0
610080	0	0	1	185	0	0	0	0	4	373
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	18	1	20	0	0	0	0	5	165
700020	1	14	0	0	0	0	0	0	0	0
700080	2	410	3	367	1	217	0	0	0	0
8460110080	4	710	0	0	1	30	1	322	0	0
190010	0	0	0	0	2	25	0	0	0	0
190050	19	393	0	0	0	0	0	0	0	0
210080	34	3055	13	1866	0	0	0	0	0	0
290010	1	125	4	143	1	271	0	0	1	25
290030	1	916	1	34	7	573	0	0	0	0
290050	8	504	1	124	1	110	0	0	4	23
310080	1	26	3	91	0	0	1	35	2	73
390050	195	1280	1	7	9	103	2	21	70	1389
400060	0	0	0	0	0	0	0	0	0	0
400080	85	1017	43	511	6	708	2	30	44	461
900060	9	556	0	0	2	1147	0	0	0	0
900080	4	500	36	475	2	17	2	9	23	1080
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	115	1	65	2	149	0	0	2	190
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	20	0	0	0	0	2	145
401050	1	361	1	342	0	0	0	0	3	578
401070	0	0	0	0	21	3884	0	0	0	0
401090	0	0	0	0	10	2047	0	0	7	2962
405060	0	0	0	0	0	0	1	25	19	2285
500050	0	0	0	0	0	0	0	0	0	0
500090	7	163	7	301	5	80	8	50	11	180
9000000001	3	22	9	520	1	25	1	596	17	382
9800000001	170	5386	109	882	44	1014	4	176	100	3099
9900000001	42	40	573	197	116	87	4	3	585	234
Y-T-D Tot	660	29051	853	11814	243	11604	102	4155	931	14764
NC YTD Tot*	107	16179	53	7875	7	2010	6	1968	19	1443

Please see notes on last page of the metal forming section

U.S. EXPORTS

Metal Cutting Machine Tools - January 89 - December 89

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	202	2132	3	104	0	0	23	464	3	5
8457100015	0	0	2	199	0	0	0	0	0	0
100025	0	0	0	0	0	0	1	108	0	0
100035	0	0	9	2441	0	0	1	884	0	0
100045	2	79	77	3510	0	0	55	3005	0	0
200010	0	0	1	1030	0	0	0	0	0	0
200090	1	178	0	0	0	0	2	2618	0	0
300010	0	0	1	345	0	0	0	0	0	0
300090	2	239	3	968	0	0	4	704	1	220
8458110010	0	0	0	0	0	0	2	178	0	0
110030	6	566	1	86	0	0	4	424	0	0
110050	0	0	0	0	0	0	2	235	0	0
110090	0	0	0	0	0	0	1	75	0	0
190030	1	20	0	0	0	0	15	200	0	0
190050	0	0	0	0	0	0	12	52	0	0
190070	4	218	9	1135	0	0	1	19	0	0
190090	20	257	1	4	0	0	100	1340	2	8
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	3	724	0	0	2	139	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	4	593	0	0	0	0	5	383	0	0
991050	0	0	0	0	0	0	5	311	2	32
995090	0	0	0	0	2	181	19	801	0	0
8459100000	0	0	0	0	0	0	13	2444	0	0
210080	8	377	7	547	0	0	28	1765	0	0
290040	2	116	0	0	0	0	3	157	0	0
290050	0	0	7	340	0	0	3	24	0	0
290070	0	0	0	0	0	0	1	4	0	0
290090	6	30	14	470	0	0	28	868	0	0
310010	0	0	1	643	0	0	1	107	0	0
310040	0	0	0	0	0	0	2	180	0	0
310070	1	42	3	239	0	0	10	539	0	0
390040	0	0	1	30	0	0	0	0	0	0
390050	0	0	0	0	0	0	6	30	0	0
400040	0	0	1	496	0	0	0	0	0	0
400050	0	0	0	0	0	0	23	338	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	2	818	0	0	11	429	0	0
510080	2	547	0	0	2	69	1	71	0	0
590030	1	16	0	0	0	0	4	175	0	0
610080	1	126	10	1154	1	66	7	1597	2	100
690050	0	0	0	0	0	0	2	13	0	0
690070	0	0	1	1720	0	0	0	0	0	0
690090	1	36	41	1083	0	0	137	1412	2	36
700020	2	738	3	570	0	0	2	44	2	22
700080	7	248	10	36	0	0	52	397	0	0
8460110080	2	47	2	859	0	0	22	2029	18	1963
190010	1	96	6	75	0	0	18	188	0	0
190050	7	758	0	0	0	0	9	179	0	0
210080	73	4858	21	708	0	0	15	584	0	0
290010	0	0	0	0	0	0	3	603	0	0
290030	4	218	0	0	0	0	5	212	0	0
290050	63	2495	4	815	0	0	101	8081	17	202
310080	9	332	2	51	0	0	1	28	0	0
390050	88	860	66	413	17	107	65	489	0	0
400060	0	0	0	0	0	0	1	37	0	0
400080	8	96	18	250	5	58	19	325	18	181
900060	2	45	1	34	0	0	0	0	0	0
900080	49	1553	23	1494	0	0	157	2865	3	20
8461100060	0	0	0	0	0	0	0	0	0	0
100080	7	890	4	855	0	0	108	1604	2	11
200010	0	0	0	0	0	0	0	0	0	0
200090	2	274	1	9	0	0	17	142	0	0
300060	0	0	1	248	0	0	0	0	0	0
300080	4	194	11	1000	0	0	2	78	0	0
401050	0	0	8	1836	0	0	4	807	0	0
401070	0	0	2	47	0	0	6	129	0	0
401090	8	2432	2	962	3	246	12	1168	2	105
405060	4	1340	4	191	0	0	6	141	0	0
500050	3	444	0	0	0	0	1	3	0	0
500090	123	1915	57	878	1	20	127	1665	93	769
9000000001	40	1907	12	2538	1	61	101	1485	4	145
9800000001	175	1864	152	3419	28	156	2630	12618	140	628
9900000001	2688	1484	1074	581	43	36	3342	2257	229	152
Y-T-D Tot	3633	30662	1682	35951	103	1000	7360	60250	540	4598
NC YTD Tot*	146	10524	146	13881	3	135	173	12868	23	2096

Please see notes on last page of the metal forming section.

U.S. EXPORTS

Metal Cutting Machine Tools - January 89 - December 89

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	4	6	13	598	1	88	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	2	151	0	0	0	0
100045	4	238	0	0	0	0	27	1928	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	400
8458110010	0	0	0	0	0	0	0	0	0	0
110030	2	142	0	0	0	0	7	730	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	1	182	0	0	1	26	1	67
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	7	356	0	0	1	50	2	70
190090	0	0	1	14	5	38	3	169	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	189	0	0
991050	0	0	0	0	2	32	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	2	789	0	0
210080	6	212	2	164	1	92	0	0	0	0
290040	1	37	0	0	0	0	0	0	0	0
290050	2	114	0	0	0	0	0	0	0	0
290070	0	0	0	0	2	196	0	0	0	0
290090	69	336	1	58	2	11	44	280	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	193	0	0
310070	0	0	0	0	6	469	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	2	112	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	87	0	0
510080	2	66	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	1	640	0	0	0	0	0	0	0	0
690090	0	0	2	145	0	0	4	83	0	0
700020	2	55	0	0	0	0	5	163	0	0
700080	0	0	0	0	3	9	2	15	0	0
8460110080	5	176	0	0	1	49	5	263	13	570
190010	0	0	0	0	1	15	16	210	0	0
190050	2	145	1	762	0	0	2	105	2	321
210080	13	1461	0	0	4	800	0	0	0	0
290010	0	0	0	0	0	0	1	44	0	0
290030	1	15	0	0	3	130	5	195	0	0
290050	11	935	7	189	1	10	28	506	0	0
310080	0	0	0	0	2	71	0	0	1	45
390050	15	100	0	0	29	193	57	373	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	7	89	16	237	33	439	35	391	7	54
900060	0	0	0	0	0	0	0	0	5	178
900080	8	81	5	39	26	271	19	992	10	68
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	14	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	111	0	0	0	0	1	10	0	0
300060	2	104	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	13	0	0
401050	1	85	0	0	2	70	0	0	1	20
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	54	0	0
405060	0	0	0	0	5	106	5	206	0	0
500050	0	0	0	0	0	0	1	81	0	0
500090	6	61	8	112	1	3	16	202	1	24
9000000001	6	297	1	677	5	64	10	74	2	125
9800000001	108	1648	12	27	32	93	164	842	49	650
9900000001	619	738	172	186	127	79	277	174	41	44
Y-T-D Tot	894	7885	240	3156	309	4006	746	9636	136	2635
NC YTD Tot*	36	2453	3	841	17	1649	49	3660	19	793

Please see notes on last page of the metal forming section

U.S. EXPORTS
Metal Cutting Machine Tools - January 89 - December 89

	U.K.-		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	5	48	0	0	0	0	9	44	12	355
8457100015	4	608	0	0	1	196	1	150	5	753
100025	0	0	0	0	0	0	0	0	1	107
100035	3	279	0	0	0	0	1	450	2	255
100045	28	1113	0	0	0	0	4	246	18	1391
200010	2	1653	0	0	0	0	0	0	0	0
200090	3	851	0	0	0	0	1	588	0	0
300010	8	16837	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	3	523
8458110010	0	0	0	0	0	0	0	0	0	0
110030	64	4595	0	0	1	122	5	610	9	729
110050	7	1210	0	0	0	0	2	582	2	478
110090	0	0	0	0	0	0	0	0	2	400
190030	29	646	0	0	0	0	4	52	9	89
190050	2	30	0	0	0	0	0	0	4	12
190070	3	172	0	0	0	0	9	463	0	0
190090	28	588	0	0	3	57	5	19	47	404
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	2	539	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	25
991050	6	102	0	0	0	0	2	70	6	152
995090	16	413	0	0	4	161	6	366	5	393
8459100000	1	46	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	125	13	1114	26	2101
290040	0	0	0	0	0	0	1	250	2	32
290050	0	0	0	0	3	12	0	0	6	303
290070	55	707	0	0	0	0	0	0	1	5
290090	2	6	0	0	1	18	0	0	23	358
310010	0	0	0	0	0	0	2	579	0	0
310040	0	0	0	0	0	0	0	0	1	366
310070	0	0	0	0	1	42	0	0	2	199
390040	0	0	0	0	0	0	0	0	0	0
390050	1	5	0	0	3	63	0	0	11	66
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	2	40	0	0	4	78
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	50	13	881
510080	1	124	0	0	1	58	0	0	2	69
590030	6	171	0	0	0	0	2	64	7	233
610080	1	1831	0	0	0	0	0	0	5	299
690050	1	46	0	0	0	0	16	924	0	0
690070	7	350	0	0	0	0	15	790	0	0
690090	1	101	0	0	0	0	3	77	18	1150
700020	0	0	0	0	0	0	9	218	1	21
700080	3	158	0	0	12	2316	7	108	76	454
8460110080	20	1156	0	0	3	100	13	603	30	1457
190010	0	0	0	0	0	0	0	0	22	424
190050	3	580	0	0	1	12	10	2928	12	1136
210080	29	4204	17	608	0	0	28	4546	19	1340
290010	3	125	0	0	0	0	5	982	3	782
290030	15	2456	0	0	0	0	14	472	0	0
290050	58	3345	0	0	1	21	78	1419	12	542
310080	14	497	5	2630	1	35	6	903	4	130
390050	54	1283	41	267	2	51	117	826	120	818
400060	0	0	0	0	0	0	0	0	1	21
400080	14	173	14	220	1	8	146	1653	85	902
900060	0	0	0	0	0	0	0	0	5	766
900080	35	611	0	0	9	54	69	1219	64	1686
8461100060	6	3712	0	0	0	0	0	0	0	0
100080	2	99	0	0	6	161	8	560	8	92
200010	0	0	0	0	0	0	0	0	0	0
200090	3	40	0	0	1	9	2	39	2	8
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	29	0	0
401050	0	0	0	0	9	222	44	1523	4	1065
401070	7	254	0	0	0	0	0	0	5	143
401090	6	530	12	14657	0	0	6	1466	12	4087
405060	1	672	2	2496	0	0	0	0	8	746
500050	9	512	0	0	1	24	1	132	2	325
500090	143	2157	3	31	6	101	30	413	75	948
9000000001	9	291	2	15	10	95	22	1382	36	1659
9800000001	208	2934	0	0	159	1389	167	1782	550	4933
9900000001	1984	1289	0	0	64	41	997	578	4752	2860
Y-T-D Tot	2912	60151	96	20925	307	5531	1882	31271	6155	39549
NC YTD Tot*	199	38890	22	3238	10	701	93	11078	145	11851

Please see notes on last page of

U.S. EXPORTS

Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 89 - December 89

RELEASED: February 28, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000
8454300010	Die casting machines	535	8753
8462100030	Headers and upsetters, including cold headers	121	20559
100050	Forging or die stamping machines, and hammers, n.e.c.	681	20262
210080	Bending, folding, straight. or flat. mach., incl presses, NC	312	21357
290030	Press brakes, non-NC	33	1308
290040	Bending rolls, non-NC	56	1686
290050	Bending, folding, straight., or flat., n.e.c., non-NC	618	22357
310080	Shearing machines, NC	59	4249
390050	Shearing machines, non-NC	274	5471
410080	Punching or notching mach., incl. comb. punch & shear, NC	162	23923
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	772	23777
910060	Hydraulic presses, NC	87	6697
910090	Hydraulic presses, non-NC	595	25652
990030	Presses, n.e.c., NC	64	7435
990040	Presses, mechanical, non-NC	223	13211
990060	Presses, n.e.c., non-NC	675	39407
8463100080	Draw benches for bars, tubes, profiles, wire or the like	273	6784
200080	Thread rolling machines	42	2873
300080	Machines for working wire	929	31943
900080	Metal forming machine tools, n.e.c.	2035	104370
9800000002	Used or rebuilt machine tools	3259	63746
9900000002	Machine tools valued at less than $2,500	6403	4837
	Y-T-D Forming Total	18208	460956
	NC Y-T-D Forming Total	684	63660
	Cutting and Forming Totals:		
	Y-T-D Total	73847	949789
	NC Y-T-D Total*	2317	248248

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000
1000000000	Machine tool parts and accessories	0	714343
2710003070	Quenching or cutting oils	0	12692
8428900010	Industrial robots for lifting, handling, loading or unload	838	12570
8456100000	Laser, light or photon beam for working any material	2303	43081
200000	Ultrasonic process for working any material	92	798
8477106010	Injection molding mach., for rubber or oth. thermosetting	239	21666
106050	Injection molding mach., for thermoplastics	400	47037
200010	Extruders for rubber or other thermosetting materials	260	11772
200050	Extruders for processing thermoplastics	940	35563
300000	Blow molding machines	509	28366
400000	Vacuum-molding and other thermoforming machines	1554	15110
8479899040	Industrial robots, n.e.c.	2417	34221
900040	Industrial robot parts	0	15601
8537100030	Numerical controls for controlling machine tools	9154	40757
9024100000	Machines and appliances for testing metals	0	74219
9031100000	Machines for balancing mechanical parts	0	21293
300000	Profile projectors	0	7997
9032810040	Industrial process control instr., hydraulic or pneumatic	778332	46924

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "NC Y-T-D Total" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

n.e.c. - Not elsewhere classified.

U.S. EXPORTS

Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 89 - December 89

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	23	182	3	26	3	31	1	34	141	2426
8462100030	0	0	0	0	0	0	4	1375	7	400
100050	10	311	4	64	5	113	3	67	86	1741
210080	15	450	0	0	0	0	6	294	43	2241
290030	0	0	0	0	0	0	0	0	9	338
290040	2	34	0	0	0	0	0	0	17	335
290050	21	288	0	0	1	7	3	38	173	3941
310080	0	0	0	0	0	0	0	0	10	879
390050	1	21	0	0	0	0	0	0	47	1219
410080	6	755	0	0	0	0	1	83	71	10500
490050	13	172	1	127	1	4	14	414	155	1835
910060	4	127	0	0	0	0	1	32	11	311
910090	7	125	0	0	8	2553	1	43	59	2953
990030	3	207	0	0	0	0	3	324	11	335
990040	0	0	0	0	0	0	29	1570	16	850
990060	10	330	0	0	3	38	2	173	67	2484
8463100080	3	180	0	0	1	23	7	131	23	572
200080	0	0	0	0	0	0	0	0	9	109
300080	7	144	5	83	1	8	55	1225	65	1648
900080	92	2525	2	408	9	967	16	1868	98	1187
9800000002	29	983	1	27	34	974	58	1697	360	4952
9900000002	331	258	93	79	79	71	0	0	1435	1137
Y-T-D Tot	577	7094	109	815	145	4787	204	9365	2913	42396
NC YTD Tot	28	1539	0	0	0	0	11	732	146	14267
C&F YTD	1398	18248	169	2090	349	12413	785	21180	27102	110765
C&F NC YTD*	43	3185	5	646	45	5149	60	5604	389	42399

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
1000000000	0	12140	0	1763	0	7192	0	11061	0	115688
2710003070	0	401	0	0	0	92	0	608	0	1554
8428900010	30	70	0	0	0	0	0	0	241	4169
8456100000	7	155	1	29	8	141	0	0	175	3635
200000	0	0	0	0	0	0	0	0	4	187
8477106010	3	344	0	0	3	133	1	71	31	1588
106050	2	91	6	436	4	214	7	1282	106	13341
200010	0	0	0	0	0	0	2	298	16	472
200050	16	1565	0	0	5	543	34	837	223	6511
300000	5	2182	0	0	0	0	1	14	75	4814
400000	98	493	0	0	56	475	34	107	307	2476
8479899040	8	301	1	3	4	92	3	15	452	6917
900040	0	45	0	8	0	49	0	0	0	2401
8537100030	106	496	115	602	21	134	6	13	483	2636
9024100000	0	1447	0	165	0	669	0	1300	0	6560
9031100000	0	162	0	3	0	0	0	62	0	5019
300000	0	7	0	0	0	5	0	13	0	366
9032810040	13683	1012	7834	414	12802	769	6771	377	101144	5176

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS

Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 89 - December 89

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	48	1602	22	179	21	234	2	11	6	287
8462100030	2	38	2	913	1	1070	0	0	0	0
100050	3	635	6	356	17	248	0	0	2	196
210080	1	145	3	76	2	123	2	82	3	1191
290030	0	0	0	0	6	289	0	0	1	8
290040	0	0	0	0	0	0	0	0	1	11
290050	5	818	23	779	11	1024	0	0	17	369
310080	0	0	0	0	0	0	0	0	0	0
390050	1	9	2	41	1	32	0	0	0	0
410080	2	203	0	0	0	0	0	0	0	0
490050	35	663	17	641	10	629	1	5	16	695
910060	20	665	1	285	1	877	0	0	0	0
910090	0	0	6	58	5	1620	1	6	6	127
990030	1	109	2	330	1	67	0	0	3	1591
990040	2	170	24	2604	4	192	0	0	0	0
990060	0	0	39	2246	5	40	0	0	9	412
8463100080	0	0	5	94	2	70	0	0	2	54
200080	1	195	1	40	1	32	0	0	0	0
300080	53	2285	43	911	6	66	0	0	45	2650
900080	5	840	15	383	14	1934	1	29	51	1633
9800000002	77	3321	80	614	10	359	8	89	31	598
9900000002	0	0	143	84	15	14	14	12	65	36
Y-T-D Tot	256	11700	434	10636	133	8919	29	234	253	9856
NC YTD Tot	24	1122	6	691	4	1067	2	82	6	2782
C&F YTD	916	40750	1287	22450	376	20523	131	4389	1189	24621
C&F NC YTD*	131	17301	59	8566	11	3077	8	2050	25	4225

Other Manufacturing Technology

1000000000	0	23876	0	16863	0	5818	0	1081	0	16315
2710003070	0	8	0	44	0	287	0	322	0	117
8428900010	36	363	115	677	1	62	0	0	3	138
8456100000	31	1456	38	1176	21	803	1	33	14	442
200000	0	0	1	14	1	25	0	0	0	0
8477106010	0	0	4	334	0	0	0	0	3	416
106050	0	0	1	368	0	0	0	0	4	323
200010	4	417	4	106	11	924	0	0	0	0
200050	17	2045	36	910	15	372	0	0	9	352
300000	3	678	12	1569	4	93	0	0	31	259
400000	25	2321	12	644	4	90	1	11	6	176
8479899040	14	2150	118	2154	5	424	0	0	56	844
900040	0	116	0	452	0	59	0	0	0	138
8537100030	163	747	979	4067	13	41	1	15	405	1176
9024100000	0	1651	0	1758	0	858	0	68	0	1606
9031100000	0	452	0	146	0	1434	0	4	0	48
300000	0	21	0	53	0	0	0	3	0	277
9032810040	8790	1302	37103	2345	1269	162	232	19	48575	3437

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS

Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 89 - December 89

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	16	212	20	501	2	17	23	424	1	6
8462100030	35	6281	42	5005	0	0	6	41	0	0
100050	97	5272	45	1199	0	0	134	2624	2	39
210080	78	5436	46	3245	0	0	31	1531	1	17
290030	5	206	1	49	0	0	9	290	0	0
290040	2	57	0	0	0	0	19	772	0	0
290050	27	1552	43	2716	2	22	92	2592	10	173
310080	9	436	2	52	1	67	10	473	1	40
390050	21	330	74	787	1	20	39	517	6	88
410080	3	1321	6	1505	6	994	8	1648	17	2235
490050	38	814	34	3864	1	9	106	2116	1	146
910060	4	190	0	0	1	17	12	363	1	84
910090	9	1532	32	2932	0	0	365	4066	5	69
990030	8	1027	0	0	0	0	3	366	4	493
990040	22	1059	10	404	1	51	17	649	0	0
990060	36	1776	32	2413	0	0	320	12291	0	0
8463100080	41	1009	5	100	0	0	33	611	12	307
200080	6	274	1	93	0	0	11	1609	0	0
300080	24	1171	7	183	6	81	62	1009	4	48
900080	159	15336	425	27133	6	85	150	2067	13	107
9800000002	38	2007	171	10161	4	260	1114	10113	180	2942
9900000002	304	182	320	268	0	0	902	856	154	118
Y-T-D Tot	982	47480	1316	62610	31	1623	3466	47026	412	6913
NC YTD Tot	102	8409	54	4802	8	1078	64	4382	24	2870
C&F YTD	4615	78142	2998	98561	134	2623	10826	107276	952	11511
C&F NC YTD*	248	18933	200	18683	11	1213	237	17249	47	4966

Other Manufacturing Technology

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	68109	0	41534	0	3944	0	56799	0	6233
2710003070	0	725	0	216	0	73	0	850	0	76
8428900010	78	789	8	690	4	13	115	3535	0	0
8456100000	1251	15462	19	824	9	954	71	568	5	158
200000	63	88	0	0	0	0	2	23	0	0
8477106010	4	374	14	2726	16	1729	116	7923	1	71
106050	10	2071	22	4825	0	0	84	10080	16	1236
200010	10	1037	27	1448	0	0	102	4286	0	0
200050	68	1177	63	700	4	82	136	5953	7	197
300000	5	60	40	2185	0	0	141	4002	1	15
400000	149	422	52	534	0	0	119	2458	56	441
8479899040	173	4692	61	1708	2	105	7	107	36	213
900040	0	3891	0	674	0	19	0	663	0	40
8537100030	218	2347	747	979	30	89	224	674	154	1344
9024100000	0	16955	0	9697	0	980	0	2642	0	914
9031100000	0	731	0	4092	0	78	0	2747	0	72
300000	0	4686	0	357	0	90	0	17	0	13
9032810040	51717	4039	8787	1138	131	17	36843	1573	85375	4676

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS

Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 89 - December 89

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	12	0	0	1	8	9	74	2	16
8462100030	0	0	0	0	0	0	0	0	6	676
100050	11	307	6	297	0	0	7	103	9	156
210080	0	0	1	44	6	197	6	1666	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	1	11	0	0
290050	27	992	6	127	9	159	3	38	8	77
310080	5	1367	0	0	0	0	0	0	0	0
390050	0	0	26	713	0	0	2	72	0	0
410080	8	833	0	0	1	113	12	802	3	215
490050	12	88	22	838	10	88	38	1243	11	169
910060	0	0	1	94	0	0	5	2163	3	241
910090	3	53	2	134	3	144	4	405	0	0
990030	2	346	0	0	1	65	3	233	1	165
990040	2	924	0	0	0	0	0	0	0	0
990060	3	23	10	412	1	22	5	783	1	10
8463100080	32	480	4	71	4	109	1	10	5	166
200080	0	0	5	258	0	0	0	0	0	0
300080	5	87	17	599	6	130	9	173	11	358
900080	15	2056	9	433	15	475	75	14287	7	168
9800000002	20	561	4	244	6	20	25	449	69	1476
9900000002	55	64	2	2	17	15	72	62	2	3
Y-T-D Tot	202	8193	115	4265	80	1546	277	22573	138	3896
NC YTD Tot	15	2546	2	138	8	375	26	4863	7	621
C&F YTD	1096	16079	355	7421	389	5552	1023	32209	274	6531
C&F NC YTD*	51	4998	5	979	25	2025	75	8523	26	1414

Other Manufacturing Technology

	Singapore Units	Singapore $000	Spain Units	Spain $000	Switzerland Units	Switzerland $000	Taiwan Units	Taiwan $000	Thailand Units	Thailand $000
1000000000	0	12371	0	6512	0	10002	0	13100	0	3399
2710003070	0	331	0	218	0	82	0	2426	0	196
8428900010	28	138	3	232	14	20	0	0	0	0
8456100000	10	245	6	109	6	325	62	3263	0	0
200000	0	0	7	179	1	17	0	0	0	0
8477106010	0	0	5	1911	0	0	0	0	0	0
106050	17	1655	6	484	3	208	25	1632	0	0
200010	1	60	0	0	0	0	13	565	0	0
200050	7	613	1	200	0	0	67	1479	5	116
300000	6	45	6	266	1	12	7	122	11	1448
400000	36	327	0	0	261	300	2	12	4	73
8479899040	50	311	12	170	93	1434	64	510	0	0
900040	0	96	0	58	0	175	0	40	0	0
8537100030	94	298	28	161	455	673	140	630	18	151
9024100000	0	1935	0	2153	0	409	0	3458	0	144
9031100000	0	914	0	55	0	44	0	407	0	45
300000	0	212	0	160	0	37	0	392	0	0
9032810040	30393	1983	21184	1160	2647	291	31870	1814	80673	313

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS

Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 89 - December 89

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	29	194	0	0	55	1399	42	184	63	694
8462100030	0	0	0	0	0	0	13	3432	3	1629
100050	85	2031	0	0	18	362	13	358	118	3785
210080	28	1255	0	0	1	19	1	71	38	3274
290030	1	124	0	0	0	0	0	0	1	5
290040	1	25	0	0	0	0	0	0	13	442
290050	21	855	0	0	9	142	39	1777	68	3869
310080	15	573	1	69	1	34	0	0	4	258
390050	9	170	0	0	0	0	2	632	42	819
410080	5	1036	0	0	1	36	4	916	8	727
490050	70	3404	0	0	2	118	47	2136	117	3556
910060	8	198	2	108	0	0	3	121	9	823
910090	9	1535	0	0	5	1270	12	2300	53	3728
990030	4	467	0	0	0	0	2	50	12	1258
990040	36	2110	1	694	0	0	43	1110	16	823
990060	41	5290	0	0	14	287	41	8003	36	2373
8463100080	9	72	0	0	1	12	35	733	48	1983
200080	1	19	0	0	0	0	0	0	6	244
300080	251	12192	2	106	23	575	56	2031	166	4181
900080	79	6662	0	0	12	419	116	4493	651	18874
9800000002	54	1217	0	0	81	3726	47	1432	758	15523
9900000002	489	274	0	0	32	29	581	444	1298	830
Y-T-D Tot	1245	39704	6	977	255	8427	1097	30225	3528	69698
NC YTD Tot	60	3529	3	176	3	89	10	1158	71	6341
C&F YTD	4157	99854	102	21901	562	13958	2979	61496	9683	109248
C&F NC YTD*	259	42419	25	3415	13	790	103	12236	216	18203

Other Manufacturing Technology

1000000000	0	85346	0	947	0	12371	0	59335	0	122544
2710003070	0	133	0	0	0	504	0	143	0	3285
8428900010	26	1088	0	0	0	0	83	451	53	136
8456100000	178	2651	8	193	7	160	81	3818	294	6482
200000	12	239	0	0	0	0	0	0	1	26
8477106010	3	179	4	565	2	148	7	1063	22	2090
106050	27	2093	0	0	6	689	25	3812	29	2198
200010	0	0	0	0	5	59	48	1765	17	335
200050	43	2648	0	0	12	1709	32	1008	140	6545
300000	31	692	5	1976	35	642	24	1819	65	5472
400000	142	1464	0	0	2	12	99	899	109	1375
8479899040	163	2587	1	50	2	9	938	7716	154	1710
900040	0	3396	0	0	0	8	0	2409	0	865
8537100030	2595	14451	0	0	134	72	1387	5163	638	3798
9024100000	0	5713	0	304	0	310	0	5742	0	6781
9031100000	0	1199	0	0	0	128	0	772	0	2679
300000	0	598	0	0	0	0	0	275	0	414
9032810040	65961	5124	1709	50	4929	914	49503	3693	68407	5129

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8465300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 89 - December 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	4	145	0	0	4	145
Czechoslovakia	2	152	0	0	2	152
Denmark	19	236	213	1392	232	1628
East Germany	0	0	1	76	1	76
Finland	291	196	28	386	319	582
Greece	33	753	10	2258	43	3011
Hungary	24	3643	3	93	27	3736
Iceland	0	0	0	0	0	0
Ireland	36	1135	97	5619	133	6753
Luxembourg	0	0	0	0	0	0
Norway	27	179	40	857	67	1036
Poland	35	1030	16	3083	51	4113
Portugal	21	237	20	704	41	941
Romania	0	0	0	0	0	0
Sweden	277	2419	162	5999	439	8418
Turkey	30	2194	17	522	47	2716
Yugoslavia	11	181	16	627	27	809
Oth Europe	1	26	2	95	3	121
TOTAL	8838	172111	4526	131433	13364	303544
NORTH AND CENTRAL AMERICA						
Bahamas	131	133	6	63	137	196
Barbados	9	39	16	99	25	138
Belize	3	20	0	0	3	20
Bermuda	10	235	1	3	11	238
Costa Rica	462	403	22	118	484	521
Dominican Rep	49	332	86	839	135	1171
El Salvador	19	414	10	60	29	473
Guatemala	28	123	53	1058	81	1181
Haiti	0	0	15	85	15	85
Honduras	8	83	23	549	31	632
Jamaica	67	423	17	318	84	740
Panama	12	199	10	334	22	533
Trinidad	14	57	9	100	23	157
Oth N & C Am.	15	217	84	782	99	999
TOTAL	32376	131296	6731	93830	39107	225126
SOUTH AMERICA						
Argentina	213	1586	385	774	598	2359
Bolivia	1	170	0	0	1	170
Chile	220	1452	341	3330	561	4782
Colombia	425	3016	750	3304	1175	6320
Ecuador	5	14	10	211	15	224
Paraguay	2	6	0	0	2	6
Peru	13	845	59	1609	72	2454
Uruguay	21	190	0	0	21	190
Oth South Am.	8	165	4	69	12	234
TOTAL	1796	24789	2008	27089	3804	51878
OCEANIA						
New Zealand	41	389	16	237	57	626
Oth Oceania	7	160	6	145	13	305
TOTAL	869	11703	599	7475	1468	19178

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 89 - December 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	2	1634	2	1634
Hong Kong	2619	4552	468	6863	3087	11415
Iran	0	0	6	831	6	831
Iraq	35	2241	22	1995	57	4236
Israel	91	1811	99	4113	190	5924
Jordan	2	12	2	60	4	72
Kuwait	20	127	3	157	23	285
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	8	11	0	0	8	11
Oman	1	12	0	0	1	12
Pakistan	16	1040	36	1055	52	2094
Philippines	308	1479	48	1316	356	2795
Qatar	1	3	0	0	1	3
Saudi Arabia	135	2105	190	5208	325	7313
Sri Lanka	11	17	0	0	11	17
Syria	1	4	1	5	2	9
United Arab Emr	27	260	6	150	33	410
Vietnam	0	0	0	0	0	0
Oth Asia	21	87	47	831	68	917
TOTAL	11495	146341	4294	191446	15789	337787
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	22	414	9	369	31	783
Ethiopia	8	43	0	0	8	43
Gabon	0	0	0	0	0	0
Ghana	4	123	3	207	7	330
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	1	16	1	16
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	14	887	3	12	17	898
South Africa	194	1064	28	8864	222	9927
Sudan	10	7	0	0	10	7
Swaziland	0	0	0	0	0	0
Tunisia	0	0	1	21	1	21
Zaire	1	2	0	0	1	2
Zambia	0	0	0	0	0	0
Zimbabwe	7	43	2	15	9	58
Oth Africa	5	10	3	180	8	190
TOTAL	265	2593	50	9683	315	12276

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

A8-20-3

REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICS

No. 50-90 April 18, 1990

U.S. FOREIGN TRADE -- JANUARY 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY
(Millions of U.S. Dollars)

	Jan. 1990	Dec. 1989	% Change Dec.-Jan.	Year to Date '90	Year to Date '89	% Change '89-'90
METAL CUTTING MACHINE TOOLS						
Imports	$173.5	$155.1	11.9%	$173.5	$146.2	18.7%
Exports	$ 61.2	$ 53.1	15.3%	$ 61.2	$ 37.1	65.0%
Balance	($112.3)	($102.0)	10.1%	($112.3)	($109.1)	2.9%
METAL FORMING MACHINE TOOLS						
Imports	$ 42.6	$ 44.0	(3.2%)	$ 42.6	$ 50.5	(15.6%)
Exports	$ 41.8	$ 41.4	1.0%	$ 41.8	$ 32.1	30.2%
Balance	($ 0.8)	($ 2.6)	(69.2%)	($ 0.8)	($ 18.4)	(85.9%)
MACHINE TOOL TOTAL						
Imports	$216.1	$199.0	8.6%	$216.1	$196.6	9.9%
Exports	$103.1	$ 94.5	9.1%	$103.1	$ 69.2	49.0%
Balance	($113.0)	($104.5)	8.1%	($113.0)	($127.4)	(11.3%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Imports	$119.0	$111.4	6.8%	$119.0	$ 97.2	22.4%
Exports	$ 36.0	$ 22.7	58.6%	$ 36.0	$ 15.6	130.8%
Balance	($ 83.0)	($ 88.7)	(6.4%)	($ 83.0)	($ 81.6)	1.7%

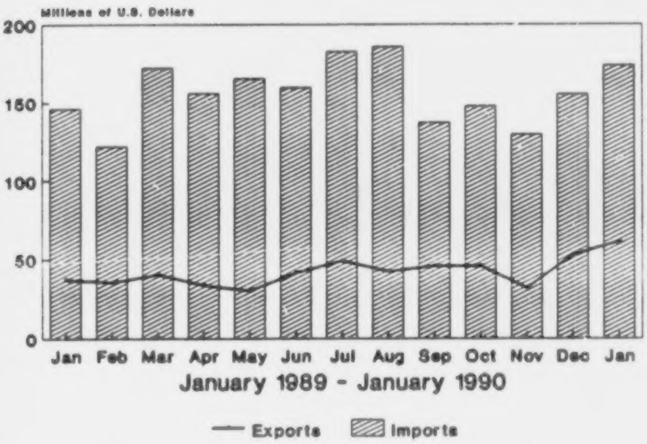
Note: Numerically controlled machine tools is a subgroup of the machine tool total. NA = not available; ( ) denotes negative. Individual items may not add up to totals due to rounding. Because of data revision, aggregate import and export data for "other manufacturing technology" are unavailable this month, but will be available next month.

- In January 1990, total machine tool exports were $103.1 million, the highest monthly total since May 1981. The ratio of exports to imports in January (47.7%) was the highest since December 1983. Exports of NC machines ($36.0 million) were at their highest levels since collection of this data began in January 1989.

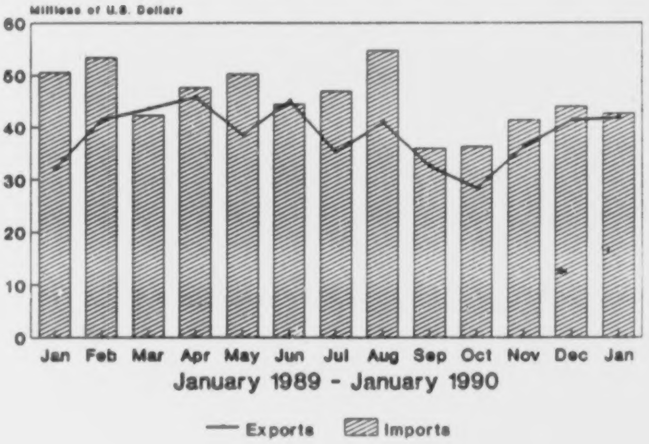
- Imports of $216.1 million in January were the sixth highest monthly total ever and were 9% higher than the December total. Japan supplied $115.8 million, or 54%, of the January total, up 20% from Japan's $96.2 million recorded in December.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING

Exports

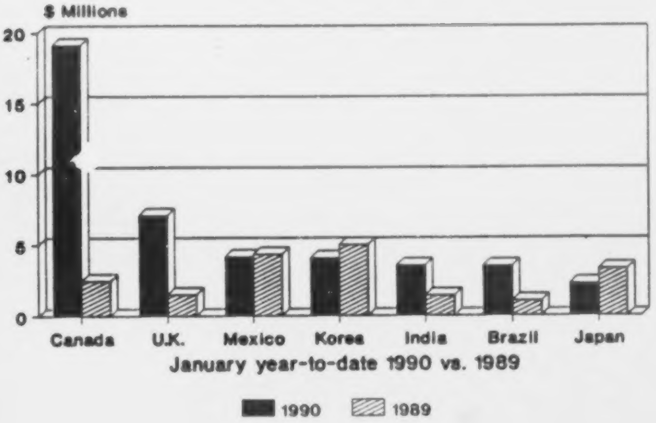
- Exports of metal cutting machine tools totalled $61.2 million in January 1990, up from $53.1 million in December 1989 and the highest monthly total since July 1981.

- The leading export markets were Canada ($19.1 million), the United Kingdom ($7.1 million), Mexico ($4.2 million), South Korea ($4.1 million), India ($3.5 million) and Brazil ($3.5 million).

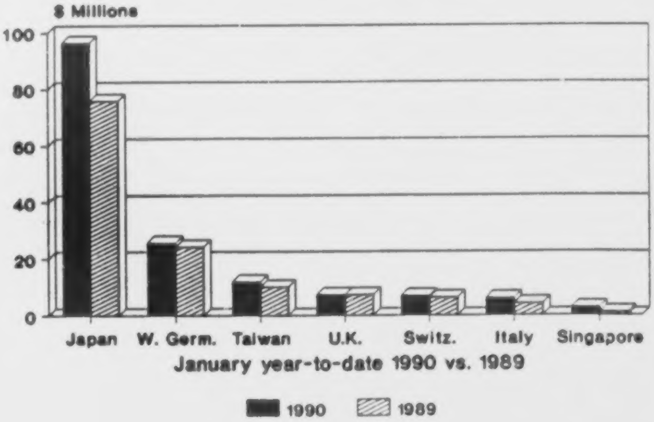
- Exports to Canada of $19.1 million were up from $6.9 million in December 1989. Included were grinding machines ($8.7 million), horizontal NC lathes ($2.3 million) and machining centers ($2.1 million).

METAL CUTTING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- Imports rose to $173.5 million in January 1990, up 12% over December 1989 and equal to the third highest monthly total ever. Of the total, $96.4 million (56%) were from Japan and $25.7 million (15%) were from West Germany. Other major sources were Taiwan ($12.0 million), the United Kingdom ($7.3 million) and Switzerland ($6.9 million).

- Imports included machining centers ($44.5 million, 75% of which was from Japan), NC horizontal lathes ($34.3 million, 93% of which was from Japan), grinding machines ($28.4 million) and non-NC lathes ($9.7 million).

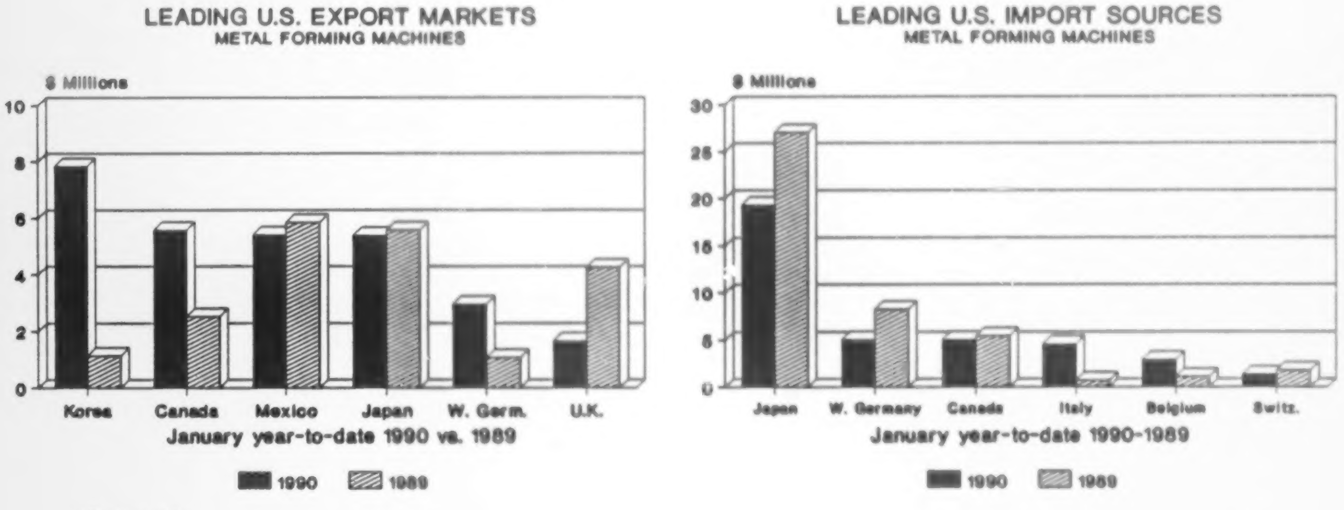
METAL FORMING

Exports

- Metal forming exports totalled $41.8 million in January 1990, up from $41.4 million in December 1989 and $32.1 million in January 1989. Major export markets were South Korea ($7.8 million, up from $2.4 million in December), Canada ($5.6 million), Mexico ($5.4 million) and Japan ($5.4 million). Exports to Iraq in January were $2.4 million.

- Exports of presses were $11.7 million (including eight non-NC hydraulic presses to Korea for $3.7 million), down from $16.8 million in December. Exports of bending and forming machines were $5.9 million, up 153% over December 1989; exports of forging machines were $5.0 million, up 46% over December 1989.

METAL FORMING MACHINE TOOL FOREIGN TRADE



LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES

LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES

Imports

- U.S. metal forming machine tool imports totalled $42.6 million in January 1990, down 3% from December 1989 and down 16% from January 1989. Imports of presses were $7.1 million, up from $6.7 million in December; imports of forging machines were $8.5 million, down from $11.8 million in December; imports of bending and forming machines were $7.3 million, down from $8.3 million in December.

- Imports from Japan were $19.3 million, down from $19.9 million in December 1989 and $27.0 million in January 1989. Other major import sources in January 1990 were West Germany ($5.1 million), Canada ($5.1 million), Italy ($4.6 million) and Belgium ($2.9 million).

OTHER MANUFACTURING TECHNOLOGY

Exports

- Exports of machine tool parts and accessories were $58.8 million in January 1990, including $15.2 million to Canada and $7.1 million to the United Kingdom. Exports of parts for working rubber or plastics machinery were $20.9 million, and exports of industrial robot parts were $5.6 million.

- Exports of industrial robots were $7.9 million, up from $6.0 million in December. Exports of injection molding machines were $4.9 million, down from $6.8 million in December.

- Exports of numerical controls for controlling machine tools were $3.0 million, equal to the total in December 1989. Exports of industrial process controls were $3.1 million in January, down from $4.4 million in December.

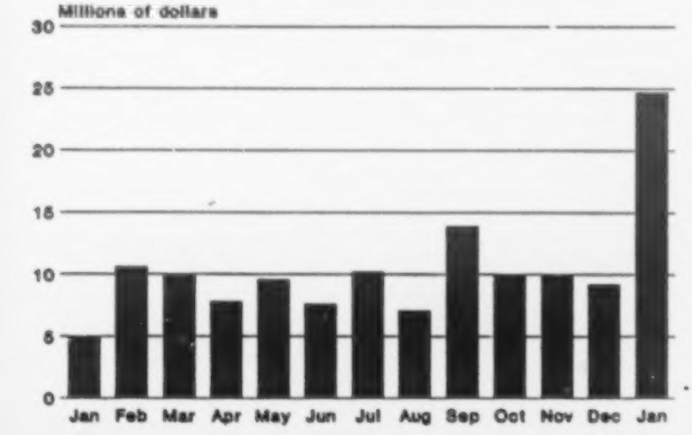
Imports

- Imports of machine tool parts and accessories were $49.0 million in January, up from $33.8 million in December. Major sources were Japan ($16.8 million), West Germany ($10.9 million) and Canada ($5.0 million). Imports of parts for rubber or plastics machinery were $32.0 million, and imports of industrial robot parts were $10.7 million. Imports of numerical controls were $3.0 million (down from $4.1 million in December), 96% of which was from Japan.

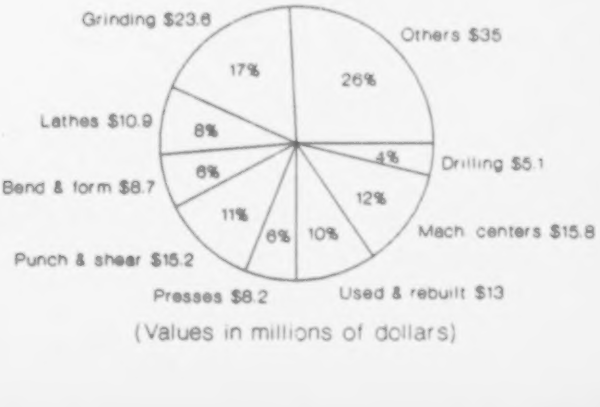
- In January, imports of injection molding machinery fell 4% from December to $29.4 million, imports of industrial robots were $8.2 million, down from $15.6 million in December, and imports of blow molding machines were $5.9 million, up from $4.3 million in December.

MONTHLY FOCUS

Canada and Mexico are perennially the two largest U.S. machine tool export markets. Canada was the largest market in 1980, 1983-1985, and 1987, while Mexico was first in 1981-1982, 1986 and 1988. Canada began 1990 with a flourish: exports to Canada in January were $24.7 million, versus $9.6 million for Mexico. The charts below detail U.S. exports to Canada from January 1989 to January 1990.


U.S. Machine Tool Exports to Canada
January 1989-January 1990

Source: NMTBA


U.S. Machine Tool Exports to Canada
January 1989-January 1990

(Values in millions of dollars)

1990 EXPORTS

METAL CUTTING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Canada	$19,130,487	$2,461,695	677.13%	$6,926,829	176.18%
U.K.	7,091,975	1,506,062	370.90	7,414,920	-4.36
Mexico	4,163,500	4,343,717	-4.15	2,949,027	41.18
Korea	4,103,519	5,006,142	-18.03	774,940	429.53
India	3,542,508	1,418,056	149.81	674,996	424.82
Brazil	3,521,261	1,046,753	236.40	1,520,666	131.56
Japan	2,279,351	3,319,993	-31.34	2,334,070	-2.34
West Germany	2,225,342	740,421	200.55	2,860,936	-22.22
Australia	2,222,694	842,945	163.68	1,553,818	43.05
France	1,999,186	676,047	195.72	766,576	160.79
Italy	1,825,244	2,168,166	-15.82	1,406,343	29.79
Taiwan	1,774,960	1,221,874	45.27	799,808	121.92
Belgium	1,368,481	648,867	110.90	777,099	76.10
Singapore	583,277	856,958	-31.94	265,422	119.75
Spain	424,524	302,310	40.43	48,706	771.61
Netherlands	404,565	1,939,580	-79.14	728,701	-44.48
Switzerland	278,370	44,797	521.40	492,134	-43.44
Malaysia	211,781	35,008	504.95	9,805	2,059.93
Thailand	144,661	154,625	-6.44	438,873	-67.04
China	127,620	1,613,444	-92.09	4,018,965	-96.82
Indonesia	80,519	349,520	-76.96	0	NA
Austria	6,037	8,480	-28.81	20,984	-71.23
Venezuela	4,077	3,559,450	-99.89	43,963	-90.73
USSR	0	3,100	-100.00	8,996,603	-100.00

METAL FORMING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Korea	$7,834,296	$1,138,103	588.36%	$2,446,473	220.23%
Canada	5,577,252	2,524,337	120.94	2,264,788	146.26
Mexico	5,406,892	5,844,151	-7.48	7,834,307	-30.98
Japan	5,388,718	5,572,471	-3.30	4,911,252	9.72
West Germany	2,957,432	1,066,592	177.28	3,897,759	-24.12
U.K.	1,665,510	4,254,410	-60.85	1,002,637	66.11
Italy	1,215,381	1,476,401	-17.68	2,232,131	-45.55
China	1,140,331	639,183	78.40	736,528	54.83
Netherlands	1,045,192	237,677	339.75	531,392	96.69
Taiwan	959,646	239,058	301.43	3,830,518	-74.95
India	828,485	614,631	34.79	84,641	878.82
Austria	566,000	0	NA	0	NA
France	468,006	1,080,049	-56.67	2,391,986	-80.43
Spain	284,142	118,512	139.76	212,914	33.45
Thailand	284,000	0	NA	213,913	32.76
Australia	215,755	187,448	15.10	272,975	-20.96
Singapore	212,746	2,214,941	-90.39	1,079,187	-80.29
Venezuela	168,125	872,575	-80.73	13,725	1,124.95
Brazil	64,729	184,457	-64.91	1,562,179	-95.86
Malaysia	58,564	132,120	-55.67	82,449	-28.97
Belgium	19,639	44,861	-56.22	1,999,604	-99.02
Indonesia	6,965	0	NA	0	NA
Switzerland	0	0	NA	147,086	-100.00
USSR	0	0	NA	0	NA

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Canada	$24,707,739	$ 4,986,032	395.54%	$ 9,191,617	168.81%
Korea	11,937,815	6,144,245	94.29	3,221,413	270.58
Mexico	9,570,392	10,187,868	-6.06	10,783,334	-11.25
U.K.	8,757,485	5,760,472	52.03	8,417,557	4.04
Japan	7,668,069	8,892,464	-13.77	7,245,322	5.83
West Germany	5,182,774	1,807,013	186.81	6,758,695	-23.32
India	4,370,993	2,032,687	115.04	759,637	475.41
Brazil	3,585,990	1,231,210	191.26	3,082,845	16.32
Italy	3,040,625	3,644,567	-16.57	3,638,474	-16.43
Taiwan	2,734,606	1,460,932	87.18	4,630,326	-40.94
France	2,467,192	1,756,096	40.49	3,158,562	-21.89
Australia	2,438,449	1,030,393	136.65	1,826,793	33.48
Netherlands	1,449,757	2,177,257	-33.41	1,260,093	15.05
Belgium	1,388,120	693,728	100.10	2,776,703	-50.01
China	1,267,951	2,252,627	-43.71	4,755,493	-73.34
Singapore	796,023	3,071,899	-74.09	1,344,609	-40.80
Spain	708,666	420,822	68.40	261,620	170.88
Austria	572,037	8,480	6,645.72	20,984	2,626.06
Thailand	428,661	154,625	177.23	652,786	-34.33
Switzerland	278,370	44,797	521.40	639,220	-56.45
Malaysia	270,345	167,128	61.76	92,254	193.04
Venezuela	172,202	4,432,025	-96.11	57,688	198.51
Indonesia	87,484	349,520	-74.97	0	NA
USSR	0	3,100	-100.00	8,996,603	-100.00

1990 IMPORTS

METAL CUTTING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Japan	$ 96,409,162	$ 75,768,884	27.24%	$ 76,228,360	26.47%
West Germany	25,716,456	24,351,766	5.60	31,880,812	-19.34
Taiwan	12,024,656	10,169,852	18.24	9,503,279	26.53
U.K.	7,301,671	7,358,302	-0.77	8,333,372	-12.38
Switzerland	6,922,891	6,339,501	9.20	6,589,288	5.06
Italy	6,114,586	4,317,650	41.62	4,557,030	34.18
Singapore	2,703,581	1,098,655	146.08	1,709,746	58.13
Sweden	2,261,885	475,362	375.82	1,539,880	46.89
Korea	2,236,678	1,110,814	101.35	2,148,718	4.09
Spain	2,003,220	1,555,914	28.75	1,458,837	37.32
France	1,164,643	5,006,662	-76.74	2,026,446	-42.53
Canada	1,016,497	1,680,852	-39.52	2,359,196	-56.91
Brazil	972,426	847,581	14.73	479,825	102.66
Belgium	183,202	962,238	-80.96	629,175	-70.88

METAL FORMING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Japan	$ 19,339,002	$ 27,042,008	-28.49%	$ 19,926,101	-2.95%
West Germany	5,060,547	8,276,647	-38.86	5,434,129	-6.87
Canada	5,055,174	5,423,801	-6.80	4,770,478	5.97
Italy	4,570,942	725,090	530.40	1,969,237	132.12
Belgium	2,911,568	1,094,457	166.03	2,619,401	11.15
Switzerland	1,354,674	1,788,139	-24.24	1,232,758	9.89
Sweden	1,167,365	986,203	18.37	1,381,029	-15.47
U.K.	909,509	1,772,316	-48.68	2,747,854	-66.90
Taiwan	755,929	734,394	2.93	1,131,376	-33.18
Spain	177,194	43,986	302.84	324,784	-45.44
France	168,658	199,753	-15.57	245,236	-31.23
Brazil	0	1,330	-100.00	0	NA
Singapore	0	236,556	-100.00	0	NA
Korea	0	0	NA	240,695	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Japan	$115,748,164	$102,810,892	12.58%	$ 96,154,461	20.38%
West Germany	30,777,003	32,628,413	-5.67	37,314,941	-17.52
Taiwan	12,780,585	10,904,246	17.21	10,634,655	20.18
Italy	10,685,528	5,042,740	111.90	6,526,267	63.73
Switzerland	8,277,565	8,127,640	1.84	7,822,046	5.82
U.K.	8,211,180	9,130,618	-10.07	11,081,226	-25.90
Canada	6,071,671	7,104,653	-14.54	7,129,674	-14.84
Sweden	3,429,250	1,461,565	134.63	2,920,909	17.40
Belgium	3,094,770	2,056,695	50.47	3,248,576	-4.73
Singapore	2,703,581	1,335,211	102.48	1,709,746	58.13
Korea	2,236,678	1,110,814	101.35	2,389,413	-6.39
Spain	2,180,414	1,599,900	36.28	1,783,621	22.25
France	1,333,301	5,206,415	-74.39	2,271,682	-41.31
Brazil	972,426	848,911	14.55	479,825	102.66

1990 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		JANUARY 1989		DECEMBER 1989	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	2,899	$12,224,015	4,001	$9,651,663	3,122	$9,216,500
Boring Machines	13	958,297	74	638,181	8	1,268,274
Drilling Machines	110	2,255,419	18	895,459	62	731,257
Gear Cutting Machines	41	5,554,867	36	5,448,728	38	15,541,997
Grinding Machines	271	15,211,730	230	7,834,870	381	12,184,907
Horizontal Lathes NC	43	4,863,833	16	2,019,282	14	1,767,718
Vertical Lathes NC	5	1,223,137	2	366,000	2	299,840
Lathes Non-NC	58	1,113,041	16	465,926	47	1,070,817
Milling Machines	48	3,596,641	66	4,903,870	22	838,137
Machining Centers	65	7,526,957	21	3,086,413	37	3,741,018
Station Type Machines	10	5,374,341	4	1,498,740	3	5,017,482
Other Metal Cutting	314	7,165,369	257	4,584,770	222	4,519,217
Punching & Shearing	107	4,427,453	63	2,957,497	128	5,143,232
Bending & Forming Machines	137	5,902,352	84	3,433,140	66	2,336,980
Presses	259	11,682,624	133	5,590,097	206	16,835,790
Forging Machines	26	5,015,295	46	3,249,295	37	3,439,617
Other Metal Forming	265	8,974,698	322	12,540,612	221	10,516,660
TOTAL	4,671	$103,070,069	5,389	$69,164,543	4,616	$94,469,443

PRODUCT TYPES	% CHANGE JAN 89' - JAN 90'		% CHANGE DEC 89' - JAN 90'	
	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	-27.54%	26.65%	-7.14%	32.63%
Boring Machines	-82.43	50.16	62.50	-24.44
Drilling Machines	511.11	151.87	77.42	208.43
Gear Cutting Machines	13.89	1.95	7.89	-64.26
Grinding Machines	17.83	94.15	-28.87	24.84
Horizontal Lathes NC	168.75	140.87	207.14	175.15
Vertical Lathes NC	150.00	234.19	150.00	307.93
Lathes Non-NC	262.50	138.89	23.40	3.94
Milling Machines	-27.27	-26.66	118.18	329.12
Machining Centers	209.52	143.87	75.68	101.20
Station Type Machines	150.00	258.59	233.33	7.11
Other Metal Cutting	22.18	56.29	41.44	58.55
Punching & Shearing	69.84	49.70	-16.41	-13.92
Bending & Forming Machines	63.10	71.92	107.58	152.56
Presses	94.74	108.99	25.73	-30.61
Forging Machines	-43.48	54.35	-29.73	45.81
Other Metal Forming	-17.70	-28.43	19.91	-14.66
TOTAL	-13.32	49.02	1.19	9.10

1990 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		JANUARY 1989		DECEMBER 1989	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	80,165	$ 15,101,348	40,903	$10,113,655	57,233	$ 11,578,118
Boring Machines	40	2,511,474	89	7,646,136	33	2,375,161
Drilling Machines	187	5,976,518	161	10,160,328	101	6,664,794
Gear Cutting Machines	37	5,386,214	46	4,358,306	89	5,929,864
Grinding Machines	722	28,410,149	560	13,559,864	714	20,669,640
Horizontal Lathes NC	342	34,310,797	366	33,687,505	285	27,365,253
Vertical Lathes NC	23	2,826,480	13	1,199,802	20	9,235,558
Lathes Non-NC	609	9,691,329	560	7,822,799	487	7,560,417
Milling Machines	450	9,477,437	410	9,722,408	478	5,821,671
Machining Centers	368	44,495,101	315	34,929,013	325	33,036,088
Station Type Machines	16	4,428,004	11	1,801,730	11	2,291,631
Other Metal Cutting	543	14,026,009	311	12,467,388	392	25,077,045
Punching & Shearing	110	5,701,791	161	7,053,551	164	4,771,936
Bending Forming Machines	206	7,285,979	183	8,366,797	147	8,320,878
Presses	339	7,092,434	239	11,386,574	253	6,745,625
Forging Machines	82	8,532,715	236	13,641,470	93	11,837,768
Other Metal Forming	289	10,864,319	129	8,724,784	153	9,761,291
TOTAL	84,528	$216,118,098	44,693	$196,642,110	60,978	$199,042,738

PRODUCT TYPES	% CHANGE JAN 89' - JAN 90'		% CHANGE DEC 89' - JAN 90'	
	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	95.99%	49.32%	40.07%	30.43%
Boring Machines	-55.06	-67.15	21.21	5.74
Drilling Machines	16.15	-41.18	85.15	-10.33
Gear Cutting Machines	-19.57	23.59	-58.43	-9.17
Grinding Machines	28.93	109.52	1.12	37.45
Horizontal Lathes NC	-6.56	1.85	20.00	25.38
Vertical Lathes NC	76.92	135.58	15.00	-69.40
Lathes Non-NC	8.75	23.89	25.05	28.19
Milling Machines	9.76	-2.52	-5.86	62.80
Machining Centers	16.83	27.39	13.23	34.69
Station Type Machines	45.45	145.76	45.45	93.23
Other Metal Cutting	74.60	12.50	38.52	-44.07
Punching & Shearing	-31.68	-19.16	-32.93	19.49
Bending Forming Machines	12.57	-12.92	40.14	-12.44
Presses	41.84	-37.71	33.99	5.14
Forging Machines	-65.25	-37.45	-11.83	-27.92
Other Metal Forming	124.03	24.52	88.89	11.30
TOTAL	89.13	9.90	38.62	8.58

RELEASED: April 18, 1990

U.S. IMPORTS - Metal Cutting Machine Tools - January 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	66	3539	66	3539
301050	Electro-discharge machines, n.e.c., NC	8	423	8	423
301070	Electro-discharge machines, n.e.c., non-NC	60	1103	60	1103
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	234	21573	234	21573
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	18	3135	18	3135
100035	Horiz. mach. ctrs., ATC	82	16835	82	16835
100045	Mach. ctrs., n.e.c.	34	2952	34	2952
200010	Unit construction mach. (single station transfer), NC	5	489	5	489
200090	Unit construction mach. (single station transfer), non-NC	0	0	0	0
300010	Multi-station transfer machines, NC	1	1086	1	1086
300090	Multi-station transfer machines, non-NC	10	2853	10	2853
8458110010	Horiz. lathes, multiple spindle, NC	47	7276	47	7276
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	218	16440	218	16440
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	70	9216	70	9216
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	7	1379	7	1379
190030	Horiz. engine or toolroom lathes, non-NC	321	3160	321	3160
190050	Automatic bar and/or chucking mach., single spindle, non-NC	64	2274	64	2274
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	6	1148	6	1148
190090	Horiz. lathes, n.e.c., non-NC	79	898	79	898
911060	Vertical turret lathes, multiple spindle, NC	3	556	3	556
911080	Vertical turret lathes, n.e.c., NC	2	338	2	338
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	18	1932	18	1932
991050	Vertical turret lathes, non-NC	35	249	35	249
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	104	1962	104	1962
8459100000	Way-type unit head machines	0	0	0	0
210080	Other drilling machines, NC	56	3571	56	3571
290040	Drilling machines, multiple spindle, non-NC	31	838	31	838
290050	Drilling machines, radial, non-NC	40	272	40	272
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	9	65	9	65
290090	Drilling machines, n.e.c., non-NC	51	1231	51	1231
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	0	0	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	12	503	12	503
310070	Boring-milling mach., n.e.c., NC	4	325	4	325
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	4	261	4	261
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	5	569	5	569
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	3	326	3	326
400070	Boring machines, n.e.c., NC	7	396	7	396
400080	Boring machines, n.e.c., non-NC	5	131	5	131
510080	Milling machines, knee type, NC	58	1237	58	1237
590030	Milling machines, knee type, non-NC	291	2122	291	2122
610080	Milling machines, excl. knee type, n.e.c., NC	43	2085	43	2085
690050	Milling machines, profile, dup., or die sinking, non-NC	5	24	5	24
690070	Milling machines, bed type, non-NC	6	476	6	476
690090	Milling machines, n.e.c., non-NC	47	3534	47	3534
700020	Threading or tapping machines, n.e.c., NC	10	368	10	368
700080	Threading or tapping machines, n.e.c., non-NC	10	236	10	236
8460110080	Flat surface grinding mach., NC	14	820	14	820
190010	Flat surface grinding mach., recip.-table type, non-NC	74	1038	74	1038
190050	Flat surface grinding mach., n.e.c., non-NC	186	1353	186	1353
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	45	9240	45	9240
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	46	1264	46	1264
290030	Grinding mach., internal cylindrical, non-NC	12	1680	12	1680
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	94	5045	94	5045
310080	Sharpening machines (tool & cutter grinding), NC	18	314	18	314
390050	Sharpening machines (tool & cutter grinding), non-NC	91	1390	91	1390
400060	Honing or lapping machines, NC	6	577	6	577
400080	Honing or lapping machines, non-NC	23	401	23	401
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	9	206	9	206
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	104	5080	104	5080
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	0	0	0	0
200010	Shaping or slotting machines, NC	63	1995	63	1995
200090	Shaping or slotting machines, non-NC	46	963	46	963
300060	Broaching machines, NC	0	0	0	0
300080	Broaching machines, non-NC	4	841	4	841
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	7	995	7	995
401040	Gear shapers	3	1135	3	1135
401060	Gear cutting machines, n.e.c.	18	363	18	363
405050	Gear grinding or finishing for bevel gears	0	0	0	0
405070	Gear grinding or finishing machines, n.e.c.	9	2893	9	2893
500050	Sawing or cutting-off machines, NC	21	1303	21	1303
500090	Sawing or cutting-off machines, non-NC	237	2678	237	2678
9000000001	Metal cutting machine tools, n.e.c.	18	577	18	577
9800000001	Used or rebuilt machine tools	84	2953	84	2953
9900000001	Machine tools valued at less than $2,500	78833	8983	78833	8983
	Cutting Total			82254	173475
	Y-T-D Cutting Total	82254	173475		
	NC Y-T-D Cutting Total	1183	110239		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	3	152	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	12	156	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	2	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	1	309	0	0	1	526
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	1	97	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	5	63	3	100	1	4	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	37	168	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	33
991050	0	0	0	0	0	0	1	85	0	0
995090	0	0	37	134	7	21	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	435	0	0	0	0	0	0
290040	0	0	0	0	0	0	1	4	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	4	403	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	2	37	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	6	95
400080	0	0	0	0	3	48	0	0	1	51
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	3	2301
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	32	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	1	10
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	3	13	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	92
290010	0	0	0	0	26	152	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	7	122
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	4	12	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	1	4	0	0	6	122
900080	0	0	0	0	5	26	0	0	26	1551
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	3	9	0	0	1	155
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	1	184
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	1	172	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	1	76
500050	0	0	0	0	0	0	0	0	0	0
500090	5	20	0	0	17	173	4	120	44	226
9000000001	0	0	0	0	0	0	0	0	3	26
9800000001	1	164	0	0	8	33	0	0	0	0
9900000001	0	0	0	0	45	46	105	144	3140	545
Month Tot	6	183	81	972	130	1016	132	1165	3243	6115
Y-T-D Tot	6	183	81	972	130	1016	132	1165	3243	6115
NC YTD Tot	0	0	1	435	4	43	4	249	16	372

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	48	3138	0	0	0	0	0	0	0	0
301050	4	385	0	0	0	0	0	0	0	0
301070	2	135	0	0	0	0	0	0	0	0
8457100015	157	16201	0	0	30	1626	0	0	0	0
100025	17	2997	0	0	0	0	0	0	0	0
100035	61	13539	0	0	0	0	0	0	0	0
100045	5	705	0	0	0	0	0	0	0	0
200010	0	0	5	489	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	1086	0	0	0	0	0	0	0	0
300090	2	1150	0	0	0	0	0	0	0	0
8458110010	42	6295	0	0	0	0	0	0	0	0
110030	197	15174	8	510	0	0	0	0	0	0
110050	69	9119	0	0	0	0	0	0	0	0
110090	6	1229	0	0	0	0	1	150	0	0
190030	12	170	5	63	26	314	1	47	0	0
190050	14	1115	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	3	343	0	0	0	0	0	0	0	0
911060	2	355	0	0	0	0	0	0	1	201
911080	2	338	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	3	629	2	204	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	149	16	910	0	0	0	0	1	15
8459100000	0	0	0	0	0	0	0	0	0	0
210080	50	3094	0	0	0	0	0	0	0	0
290040	2	269	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	44
290070	1	40	0	0	0	0	0	0	8	25
290090	8	492	0	0	0	0	30	233	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	4	544	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	1	316	0	0	0	0	0	0	0	0
400070	1	301	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	9	154	0	0	0	0	148	1029	0	0
610080	6	1277	0	0	2	84	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	2	86	0	0	0	0	0	0	2	314
690090	5	699	0	0	0	0	0	0	0	0
700020	10	368	0	0	0	0	0	0	0	0
700080	8	126	0	0	0	0	0	0	0	0
8460110080	7	243	0	0	0	0	0	0	1	379
190010	30	285	0	0	41	449	0	0	0	0
190050	1	33	0	0	0	0	0	0	1	5
210080	22	3197	0	0	0	0	0	0	1	366
290010	2	86	0	0	0	0	0	0	2	167
290030	0	0	0	0	0	0	0	0	1	333
290050	29	3706	0	0	0	0	0	0	0	0
310080	5	153	0	0	0	0	0	0	0	0
390050	20	490	0	0	0	0	0	0	0	0
400060	5	506	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	11	164
900060	2	80	0	0	0	0	0	0	0	0
900080	17	1151	7	55	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	62	1768	0	0	0	0	0	0	0	0
200090	0	0	0	0	37	230	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	46	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	2	185	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	1	175	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	3	649	0	0	0	0	0	0	0	0
500050	2	164	0	0	0	0	0	0	0	0
500090	14	739	0	0	0	0	0	0	0	0
9000000001	6	162	0	0	0	0	0	0	0	0
9800000001	14	445	0	0	0	0	0	0	2	80
9900000001	5269	673	20	5	0	0	0	0	99	170
Month Tot	6265	96409	63	2237	136	2704	184	2003	132	2262
Y-T-D Tot	6265	96409	63	2237	136	2704	184	2003	132	2262
NC YTD Tot	789	82451	15	1203	32	1710	1	150	3	946

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	1	136	13	107	0	0	0	0	1	6
301050	0	0	2	35	2	4	0	0	0	0
301070	10	260	22	378	3	6	1	41	10	128
8457100015	1	583	3	199	26	1755	5	581	12	628
100025	0	0	1	138	0	0	0	0	0	0
100035	0	0	1	145	0	0	20	3152	0	0
100045	1	197	14	912	0	0	13	1136	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	6	868	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	5	982	0	0
110030	4	304	9	451	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	5	14	72	573	46	673	0	0	145	1138
190050	4	365	38	308	8	487	0	0	0	0
190070	6	1148	0	0	0	0	0	0	0	0
190090	0	0	0	0	7	80	0	0	32	307
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	3	489	9	579
991050	0	0	10	36	0	0	0	0	24	129
995090	0	0	0	0	6	488	11	53	25	192
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	5	41	0	0
290040	1	363	25	71	0	0	0	0	2	130
290050	0	0	20	129	0	0	2	16	16	83
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	2	48	7	54
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	1	192	1	50	8	224
310070	2	61	1	9	0	0	1	255	0	0
390040	0	0	0	0	0	0	3	205	1	57
390050	0	0	1	25	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	2	10	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	32	0	0	0	0
510080	0	0	33	304	21	712	1	122	3	98
590030	0	0	75	410	41	299	3	120	15	109
610080	4	76	28	466	0	0	2	175	1	7
690050	0	0	5	24	0	0	0	0	0	0
690070	0	0	1	22	0	0	1	55	0	0
690090	2	137	15	135	0	0	2	210	20	53
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	1	78	0	0
8460110080	0	0	0	0	4	183	0	0	1	6
190010	0	0	0	0	0	0	2	288	1	16
190050	2	76	166	953	5	151	3	51	5	72
210080	6	1023	0	0	1	88	14	4475	0	0
290010	7	597	0	0	4	212	0	0	5	50
290030	2	302	0	0	1	28	2	970	6	47
290050	2	11	3	32	17	157	23	640	13	379
310080	2	22	8	78	0	0	3	61	0	0
390050	14	166	15	109	15	110	20	285	3	218
400060	0	0	0	0	0	0	1	71	0	0
400080	0	0	0	0	3	20	1	51	8	166
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	7	28	6	24	29	1932	7	312
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	1	227	0	0
200090	1	17	0	0	2	8	2	544	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	3	795	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	3	605	1	21
401040	0	0	0	0	0	0	3	1135	0	0
401060	0	0	0	0	0	0	16	16	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	2	40	3	2127	0	0
500050	0	0	2	50	0	0	17	1088	0	0
500090	0	0	29	94	27	112	54	912	43	282
9000000001	1	118	0	0	0	0	4	235	4	36
9800000001	4	50	8	8	31	1151	12	997	4	25
9900000001	83	30	61679	5796	387	279	487	403	7519	892
Month Tot	171	6923	62306	12025	669	7302	785	25716	7951	6444
Y-T-D Tot	171	6923	62306	12025	669	7302	785	25716	7951	6444
NC YTD Tot	21	2401	115	2893	55	2934	92	12904	35	1547

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

RELEASED: April 18, 1990

	Metal Forming Machine Tools	TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	28	653	28	653
8462100030	Headers and upsetters, including cold headers	17	1642	17	1642
100050	Forging or die stamping machines, and hammers, n.e.c.	65	6891	65	6891
210080	Bending, folding, straight. or flat. mach., incl presses, NC	56	2586	56	2586
290030	Press brakes, non-NC	14	449	14	449
290040	Bending rolls, non-NC	11	340	11	340
290050	Bending, folding, straight., or flat., n.e.c., non-NC	125	3912	125	3912
310080	Shearing machines, NC	2	62	2	62
390050	Shearing machines, non-NC	35	1705	35	1705
410080	Punching or notching mach., incl. comb. punch & shear, NC	24	3030	24	3030
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	49	905	49	905
910060	Hydraulic presses, NC	0	0	0	0
910090	Hydraulic presses, non-NC	204	1561	204	1561
990030	Presses, n.e.c., NC	34	3121	34	3121
990035	Mechanical transfer presses, non-NC	0	0	0	0
990045	Mechanical presses, n.e.c., non-NC	12	630	12	630
990060	Presses, n.e.c., non-NC	89	1781	89	1781
8463100080	Draw benches for bars, tubes, profiles, wire or the like	5	267	5	267
200080	Thread rolling machines	20	1015	20	1015
300080	Machines for working wire	166	6522	166	6522
900080	Metal forming machine tools, n.e.c.	70	2408	70	2408
9800000002	Used or rebuilt machine tools	64	2478	64	2478
9900000002	Machine tools valued at less than $2,500	1184	687	1184	687
	Forming Total			2274	42643
	Y-T-D Forming Total	2274	42643		
	NC Y-T-D Forming Total	116	8798		
	Cutting and Forming Totals:				
	Monthly Total			84528	216118
	Y-T-D Total	84528	216118		
	NC Y-T-D Total	1299	119037		

	Other Manufacturing Technology	TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	48968	0	48968
2000000000	Parts for working rubber or plastics - heading 8477	0	31982	0	31982
2710003070	Quenching or cutting oils	0	25	0	25
8428300010	Industrial robots for lifting, handling, loading or unload	231	3883	231	3883
8431390080	Parts industrial robots, handling and loading - heading 8428	0	8352	0	8352
8456101010	Laser, light or photon beam for working metal, NC	16	3484	16	3484
101020	Laser, light or photon beam for working metal, non-NC	1	1	1	1
105000	Laser, light or photon beam for other materials	11	30	11	30
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	0	0	0	0
205000	Ultrasonic processes for working other materials	1	38	1	38
8477103000	Injection molding mach., for manufacturing shoes	0	0	0	0
106010	Injection molding mach., for rubber or oth. thermosetting	61	4704	61	4704
106050	Injection molding mach., for thermoplastics	194	24661	194	24661
200010	Extruders for rubber or other thermosetting materials	15	2390	15	2390
200050	Extruders for processing thermoplastics	46	4326	46	4326
300000	Blow molding machines	80	5934	80	5934
400000	Vacuum-molding and other thermoforming machines	14	576	14	576
510010	Machines for molding or retreading pneumatic tires	63	4657	63	4657
510090	Machines for molding or otherwise forming inner tubes	18	1457	18	1457
590000	Machines for molding or otherwise forming n.e.c.	105	16308	105	16308
800000	Machines for working rubber or plastics n.e.c.	435	18135	435	18135
8479899040	Industrial robots, n.e.c.	1467	4293	1467	4293
908040	Industrial robot parts	0	2317	0	2317
8537100030	Numerical controls for controlling machine tools	1798	3048	1798	3048
9024100000	Machines and appliances for testing metals	0	667	0	667
9031100000	Machines for balancing mechanical parts	0	995	0	995
300000	Profile projectors	0	384	0	384
9032810020	Industrial process control instr., hydraulic	7469	78	7469	78
810060	Industrial process control instr., pneumatic	27666	312	27666	312

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	6	477	0	0	0	0
8462100030	0	0	0	0	0	0	1	12	2	470
100050	0	0	0	0	9	246	0	0	2	606
210080	1	239	0	0	0	0	2	20	1	116
290030	1	35	0	0	10	337	0	0	0	0
290040	0	0	0	0	2	14	0	0	2	67
290050	0	0	0	0	53	1144	0	0	13	120
310080	0	0	0	0	0	0	0	0	0	0
390050	6	66	0	0	11	192	0	0	3	18
410080	1	1068	0	0	1	10	0	0	0	0
490050	0	0	0	0	4	282	0	0	6	33
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	21	1077	0	0	2	61
990030	0	0	0	0	0	0	0	0	28	189
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	1	10
990060	0	0	0	0	29	418	5	19	17	249
8463100080	1	228	0	0	0	0	0	0	3	36
200080	0	0	0	0	1	11	0	0	0	0
300080	29	1077	0	0	1	96	0	0	16	1572
900080	0	0	0	0	4	419	1	109	2	9
9800000002	9	199	0	0	25	297	0	0	2	1008
9900000002	0	0	0	0	31	36	6	9	8	9
Month Tot	48	2912	0	0	208	5055	15	169	108	4571
Y-T-D Tot	48	2912	0	0	208	5055	15	169	108	4571
NC YTD Tot	2	1307	0	0	1	10	2	20	29	304
C&F Month	54	3095	81	972	338	6072	147	1333	3351	10686
C&F Y-T-D	54	3095	81	972	338	6072	147	1333	3351	10686
C&F NC YTD	2	1307	1	435	5	53	6	269	45	677

Other Manufacturing Technology

1000000000	0	1164	0	46	0	4971	0	885	0	2056
2000000000	0	1868	0	18	0	4843	0	2099	0	1077
2710003070	0	0	0	0	0	5	0	0	0	0
8428900010	0	0	0	0	66	131	0	0	0	0
8431390080	0	0	0	26	0	824	0	68	0	688
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	1	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	0	0	5	592	0	0
106050	0	0	0	0	42	3797	1	645	11	1489
200010	2	7	0	0	2	6	0	0	1	26
200050	0	0	0	0	0	0	0	0	1	150
300000	0	0	0	0	1	332	0	0	1	19
400000	0	0	0	0	0	0	0	0	0	0
510010	1	5	0	0	10	744	4	22	5	306
510090	0	0	0	0	0	0	0	0	2	11
590000	0	0	0	0	4	415	0	0	10	629
800000	30	465	0	0	20	304	23	1456	12	200
8479899040	0	0	0	0	15	605	0	0	0	0
908040	0	24	0	0	0	60	0	9	0	8
8537100030	0	0	0	0	5	21	0	0	1	16
9024100000	0	0	0	0	0	69	0	19	0	0
9031100000	0	0	0	0	0	5	0	29	0	64
300000	0	0	0	0	0	0	0	0	0	3
9032810020	0	0	0	0	0	0	0	0	42	1
810060	2	1	0	0	0	0	0	0	895	86

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

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U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	21	50	0	0	0	0	0	0	0	0
8462100030	14	1160	0	0	0	0	0	0	0	0
100050	16	3986	0	0	0	0	1	6	6	290
210080	40	1641	0	0	0	0	0	0	2	195
290030	3	77	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	88
290050	12	1279	0	0	0	0	0	0	14	245
310080	1	59	0	0	0	0	0	0	0	0
390050	9	1130	0	0	0	0	0	0	0	0
410080	9	697	0	0	0	0	0	0	0	0
490050	5	85	0	0	0	0	12	118	3	65
910060	0	0	0	0	0	0	0	0	0	0
910090	28	93	0	0	0	0	0	0	1	150
990030	5	2669	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	11	620	0	0	0	0	0	0	0	0
990060	9	145	0	0	0	0	0	0	3	64
8463100080	0	0	0	0	0	0	0	0	0	0
200080	18	968	0	0	0	0	1	36	0	0
300080	55	2969	0	0	0	0	0	0	0	0
900080	26	763	0	0	0	0	1	17	1	48
9800000002	10	818	0	0	0	0	0	0	0	0
9900000002	80	129	0	0	0	0	0	0	184	22
Month Tot	372	19339	0	0	0	0	15	177	215	1167
Y-T-D Tot	372	19339	0	0	0	0	15	177	215	1167
NC YTD Tot	55	5067	0	0	0	0	0	0	2	195
C&F Month	6637	115748	63	2237	136	2704	199	2180	347	3429
C&F Y-T-D	6637	115748	63	2237	136	2704	199	2180	347	3429
C&F NC YTD	844	87518	15	1203	32	1710	1	150	5	1141

Other Manufacturing Technology

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	16827	0	158	0	355	0	215	0	802
2000000000	0	10517	0	138	0	21	0	28	0	57
2710003070	0	4	0	0	0	0	0	0	0	0
8428900010	142	3064	0	0	0	0	0	0	10	403
8431390080	0	3106	0	54	0	0	0	23	0	156
8456101010	12	3478	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	36	3048	0	0	1	62	0	0	0	0
106050	53	10348	7	152	0	0	0	0	0	0
200010	6	2172	0	0	0	0	0	0	0	0
200050	2	48	1	11	0	0	0	0	0	0
300000	22	1111	41	211	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	37	3572	0	0	0	0	0	0	0	0
510090	7	1167	0	0	0	0	0	0	0	0
590000	28	13975	2	38	0	0	0	0	0	0
800000	69	6386	0	0	0	0	0	0	1	18
8479899040	1421	2363	0	0	0	0	0	0	6	278
908040	0	659	0	0	0	0	0	0	0	56
8537100030	1668	2912	0	0	0	0	0	0	0	0
9024100000	0	54	0	0	0	0	0	0	0	0
9031100000	0	805	0	0	0	0	0	0	0	0
300000	0	253	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	88	24	0	0	0	0	0	0	253	57

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

Metal Forming	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	126	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	95	2	59	2	181	12	1300	14	123
210080	0	0	1	6	0	0	3	246	6	123
290030	0	0	0	0	0	0	0	0	0	0
290040	1	5	0	0	2	52	0	0	3	114
290050	3	85	4	100	1	15	8	836	17	86
310080	1	3	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	3	264	3	36
410080	2	320	0	0	0	0	9	698	2	236
490050	3	123	0	0	1	11	9	100	6	88
910060	0	0	0	0	0	0	0	0	0	0
910090	1	5	107	69	0	0	16	80	28	27
990030	0	0	0	0	0	0	1	263	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	15	327	1	220	5	297	5	42
8463100080	1	3	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	4	155	6	50	37	279	14	310	4	14
900080	12	561	0	0	12	35	11	447	0	0
9800000002	0	0	0	0	11	55	4	38	3	63
9900000002	0	0	402	145	35	61	123	55	315	221
Month Tot	29	1355	537	756	102	910	219	5061	406	1172
Y-T-D Tot	29	1355	537	756	102	910	219	5061	406	1172
NC YTD Tot	3	323	1	6	0	0	13	1207	8	359
C&F Month	200	8278	62843	12781	771	8211	1004	30777	8357	7616
C&F Y-T-D	200	8278	62843	12781	771	8211	1004	30777	8357	7616
C&F NC YTD	24	2725	116	2899	55	2934	105	14111	43	1906
Other Manufacturing Technology										
1000000000	0	2454	0	1507	0	3316	0	10866	0	3346
2000000000	0	1202	0	408	0	447	0	7824	0	1435
2710003070	0	0	0	0	0	0	0	17	0	0
8428900010	0	0	0	0	9	91	4	193	0	0
8431390080	0	172	0	195	0	1014	0	697	0	1329
8456101010	0	0	0	0	4	7	0	0	0	0
101020	0	0	0	0	1	1	0	0	0	0
105000	4	10	0	0	3	9	0	0	3	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	1	38	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	1	357	4	280	0	0	13	315	1	49
106050	11	1358	8	272	0	0	53	6395	8	204
200010	0	0	0	0	0	0	1	84	3	95
200050	3	1134	5	59	8	122	25	2693	1	109
300000	0	0	1	57	0	0	14	4205	0	0
400000	0	0	0	0	0	0	14	576	0	0
510010	0	0	0	0	0	0	6	8	0	0
510090	1	142	0	0	1	4	7	134	0	0
590000	0	0	3	130	13	62	11	463	34	596
800000	4	1212	14	255	81	154	125	6639	56	1046
8479899040	1	181	0	0	8	72	5	723	11	70
908040	0	152	0	5	0	306	0	826	0	211
8537100030	0	0	0	0	0	0	123	96	1	3
9024100000	0	15	0	0	0	88	0	27	0	396
9031100000	0	11	0	0	0	10	0	28	0	42
300000	0	0	0	0	0	68	0	60	0	0
9032810020	698	16	0	0	850	5	0	0	5879	55
810060	0	0	11713	24	0	0	14475	76	240	44

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	289	1023	0	0	289	1023
Bulgaria	0	0	0	0	0	0
Czechoslovakia	9	97	0	0	9	97
Denmark	12	27	6	88	18	114
East Germany	8	316	0	0	8	316
Finland	3	34	2	236	5	270
Hungary	0	0	0	0	0	0
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	16	426	5	42	21	468
Norway	1	12	0	0	1	12
Poland	47	744	0	0	47	744
Portugal	15	62	9	167	24	229
Romania	0	0	0	0	0	0
USSR	1	16	0	0	1	16
Yugoslavia	42	396	0	0	42	396
Oth Europe	6	226	4	105	10	331
TOTAL	5771	55048	777	16958	6548	72006
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	0	0	126	275	126	275
Oth N & C Am.	0	0	0	0	0	0
TOTAL	130	1016	334	5330	464	6346
SOUTH AMERICA						
Argentina	2	13	0	0	2	13
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	83	985	0	0	83	985
OCEANIA						
Australia	39	295	3	114	42	409
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	39	295	3	114	42	409

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	7358	1718	230	49	7588	1767
Hong Kong	71	173	2	5	73	178
India	17	150	0	0	17	150
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	15	715	7	43	22	758
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	76231	116130	1148	20192	77379	136322
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	12	49	12	49
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	12	49	12	49

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90

RELEASED: April 18, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	2	213	2	213
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	9	1762	9	1762
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	1	102	1	102
100035	Horiz. mach. ctrs., ATC	2	1139	2	1139
100045	Mach. ctrs., n.e.c.	53	4524	53	4524
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	1	89	1	89
300010	Multi-station transfer machines, NC	3	4610	3	4610
300090	Multi-station transfer machines, non-NC	2	200	2	200
8458110010	Horiz. lathes, multiple spindle, NC	4	700	4	700
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	31	2394	31	2394
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	5	1031	5	1031
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	3	738	3	738
190030	Horiz. engine or toolroom lathes, non-NC	21	341	21	341
190050	Automatic bar and/or chucking mach., single spindle, non-NC	1	104	1	104
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	6	166	6	166
190090	Horiz. lathes, n.e.c., non-NC	20	260	20	260
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316	2	316
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	3	907	3	907
991050	Vertical turret lathes, non-NC	0	0	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	10	242	10	242
8459100000	Way-type unit head machines	4	475	4	475
210080	Other drilling machines, NC	14	1616	14	1616
290040	Drilling machines, multiple spindle, non-NC	4	169	4	169
290050	Drilling machines, radial, non-NC	5	40	5	40
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	6	65	6	65
290090	Drilling machines, n.e.c., non-NC	81	366	81	366
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	1	380	1	380
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	83	1	83
310070	Boring-milling mach., n.e.c., NC	1	32	1	32
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	0	0	0	0
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	8	130	8	130
400070	Boring machines, n.e.c., NC	0	0	0	0
400080	Boring machines, n.e.c., non-NC	2	334	2	334
510080	Milling machines, knee type, NC	2	113	2	113
590030	Milling machines, knee type, non-NC	7	228	7	228
610080	Milling machines, excl. knee type, n.e.c., NC	3	1534	3	1534
690050	Milling machines, profile, dup., or die sinking, non-NC	17	324	17	324
690070	Milling machines, bed type, non-NC	0	0	0	0
690090	Milling machines, n.e.c., non-NC	19	1398	19	1398
700020	Threading or tapping machines, n.e.c., NC	5	108	5	108
700080	Threading or tapping machines, n.e.c., non-NC	17	148	17	148
8460110080	Flat surface grinding mach., NC	3	94	3	94
190010	Flat surface grinding mach., recip.-table type, non-NC	7	211	7	211
190050	Flat surface grinding mach., n.e.c., non-NC	8	1473	8	1473
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	12	4132	12	4132
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	4	214	4	214
290030	Grinding mach., internal cylindrical, non-NC	4	96	4	96
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	55	1972	55	1972
310080	Sharpening machines (tool & cutter grinding), NC	3	99	3	99
390050	Sharpening machines (tool & cutter grinding), non-NC	69	4864	69	4864
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	32	566	32	566
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	1	413	1	413
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	73	1078	73	1078
8461100060	Planing machines, NC	1	111	1	111
100080	Planing machines, non-NC	62	661	62	661
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	5	225	5	225
300060	Broaching machines, NC	0	0	0	0
300080	Broaching machines, non-NC	2	296	2	296
401050	Gear hobbers	0	0	0	0
401070	Gear shapers	12	1348	12	1348
401090	Gear cutting machines, n.e.c.	10	2569	10	2569
405060	Gear grinding or finishing machines	19	1638	19	1638
500050	Sawing or cutting-off machines, NC	19	701	19	701
500090	Sawing or cutting-off machines, non-NC	131	2998	131	2998
9000000001	Metal cutting machine tools, n.e.c.	70	1705	70	1705
9800000001	Used or rebuilt machine tools	434	5498	434	5498
9900000001	Machine tools valued at less than $2,500	1920	893	1920	893
	Cutting Total			3332	61235
	Y-T-D Cutting Total	3332	61235		
	NC Y-T-D Cutting Total*	206	28806		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	5	1006
100025	0	0	0	0	0	0	0	0	1	102
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	6	1100	0	0	9	978
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	1	770
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	4	700
110030	0	0	0	0	0	0	0	0	9	724
110050	0	0	0	0	0	0	0	0	1	145
110090	0	0	0	0	0	0	0	0	3	738
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	104
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	15	212
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	21	0	0	0	0	0	0	2	75
8459100000	0	0	0	0	1	181	2	151	0	0
210080	0	0	0	0	0	0	0	0	2	359
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	4	35
290070	0	0	0	0	0	0	0	0	6	65
290090	0	0	0	0	0	0	0	0	68	310
310010	0	0	0	0	0	0	1	380	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	7	119	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	289
510080	1	55	0	0	0	0	0	0	0	0
590030	1	33	0	0	0	0	0	0	3	73
610080	1	1376	0	0	0	0	0	0	1	118
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	2	759	2	39
700020	1	17	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	75	0	0	6	18
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	2	110
190050	0	0	0	0	0	0	0	0	2	840
210080	0	0	0	0	0	0	0	0	5	2243
290010	0	0	0	0	0	0	0	0	1	25
290030	0	0	0	0	0	0	0	0	1	20
290050	0	0	0	0	0	0	15	536	4	107
310080	2	57	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	4	29	12	4502
400060	0	0	0	0	0	0	0	0	0	0
400080	3	45	0	0	0	0	0	0	1	166
900060	0	0	0	0	0	0	0	0	1	413
900080	4	44	0	0	0	0	0	0	16	301
8461100060	0	0	0	0	0	0	0	0	1	111
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	2	38
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	68
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	2	679	9	457
401090	0	0	0	0	0	0	1	687	1	487
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	10	565
500090	5	96	0	0	0	0	0	0	34	464
9000000001	0	0	0	0	0	0	1	7	24	157
9800000001	10	343	0	0	0	0	107	293	46	1180
9900000001	21	18	9	6	19	12	0	0	9	13
Month Tot	57	2223	9	6	27	1368	135	3521	326	19130
Y-T-D Tot	57	2223	9	6	27	1368	135	3521	326	19130
NC YTD Tot*	5	1505	0	0	6	1100	1	380	53	8974

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	89	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	200
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	1	80	0	0	0	0	0	0
110050	0	0	2	388	2	498	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	867	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	4	169	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	1	15	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	1	71	5	562
210080	0	0	3	584	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	128	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	3	15	1	6	0	0	5	65
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	16	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	228	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	547	0	0	0	0
405060	0	0	0	0	0	0	0	0	1	920
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	3	68	2	1328	1	9	0	0
9000000001	0	0	21	499	0	0	0	0	0	0
9800000001	0	0	2	9	5	106	0	0	2	48
9900000001	0	0	190	26	8	5	0	0	40	30
Month Tot	1	128	228	1999	26	3543	2	81	55	1825
Y-T-D Tot	1	128	228	1999	26	3543	2	81	55	1825
NC YTD Tot*	0	0	27	1550	4	1365	0	0	0	0

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	37	0	0
8457100015	0	0	1	164	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	24	1496	0	0	5	294	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	5	433	1	84	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	7	148	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	5	72	0	0	0	0	0	0	0	0
190090	0	0	2	13	0	0	3	35	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	2	316	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	40	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	56	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	55	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	5	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	11	49	0	0	1	4	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	83	0	0
310070	0	0	0	0	0	0	1	32	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	12	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	45	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	1	40	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	14	364	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	3	9	0	0
8460110080	2	74	0	0	0	0	1	20	0	0
190010	0	0	0	0	0	0	3	75	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	340	0	0	0	0	1	162	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	17	0	0
290050	0	0	0	0	0	0	11	236	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	7	2	12	1	9	5	33
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	7	79	0	0	2	27	4	61
900060	0	0	0	0	0	0	0	0	0	0
900080	5	50	5	89	0	0	5	73	2	17
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	13	285	23	200	25	156	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	168	0	0	1	3	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	1	212	0	0
401090	3	517	0	40	0	0	2	140	0	0
405060	0	0	11	408	0	0	0	0	0	0
500050	0	0	0	0	0	0	7	101	1	16
500090	26	267	7	101	0	0	20	226	6	52
9000000001	4	421	1	30	0	0	14	268	0	0
9800000001	2	10	2	1054	0	0	108	717	32	211
9900000001	387	95	53	37	0	0	611	145	31	15
Month Tot	440	2279	140	4104	25	212	859	4164	81	405
Y-T-D Tot	440	2279	140	4104	25	212	859	4164	81	405
NC YTD Tot*	10	1249	26	1744	0	0	21	1143	1	16

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	5	342	1	91
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	38	0	0	0	0	7	468	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	2	25
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	57	0	0	22	734	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	15	100	2	7	0	0	1	5	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	7	81	1	18
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	8	93	4	35	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	6	240	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	2	45	0	0
9000000001	0	0	1	268	0	0	2	29	0	0
9300000001	7	421	0	0	2	4	1	23	0	0
9900000001	20	25	0	0	0	0	79	47	6	10
Month Tot	43	583	12	425	12	278	126	1775	10	145
Y-T-D Tot	43	583	12	425	12	278	126	1775	10	145
NC YTD Tot*	1	38	1	268	0	0	12	810	1	91

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	176
8457100015	0	0	0	0	0	0	0	0	3	592
100025	0	0	0	0	0	0	0	0	0	0
100035	2	1139	0	0	0	0	0	0	0	0
100045	2	180	0	0	0	0	0	0	1	44
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	2	3840	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	11	720	0	0	0	0	4	353	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	13	183	0	0	0	0	0	0	1	11
190050	0	0	0	0	0	0	0	0	0	0
190070	1	94	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	6	90	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	1	142
210080	0	0	0	0	0	0	1	72	2	623
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	3	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	1	57
590030	1	53	0	0	0	0	0	0	2	70
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	17	324	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	235	0	0	0	0	0	0	0	0
700020	1	26	0	0	0	0	0	0	3	65
700080	1	15	0	0	0	0	0	0	5	15
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	266	1	538
290010	3	189	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	2	59	0	0
290050	0	0	0	0	0	0	0	0	1	174
310080	0	0	0	0	0	0	0	0	1	42
390050	0	0	0	0	0	0	14	85	12	75
400060	0	0	0	0	0	0	0	0	0	0
400080	1	16	0	0	0	0	1	16	5	58
900060	0	0	0	0	0	0	0	0	0	0
900080	2	26	0	0	0	0	6	108	7	157
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	19	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	2	150	0	0
405060	0	0	0	0	0	0	1	70	0	0
500050	1	19	0	0	0	0	0	0	0	0
500090	11	130	0	0	0	0	5	80	9	131
9000000001	0	0	0	0	0	0	1	10	1	16
9800000001	13	77	0	0	1	4	54	569	40	432
9900000001	85	61	0	0	0	0	53	43	299	303
Month Tot	157	7092	0	0	1	4	164	2225	396	3721
Y-T-D Tot	157	7092	0	0	1	4	164	2225	396	3721
NC YTD Tot*	19	5924	0	0	0	0	6	691	12	1961

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

RELEASED: April 18, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	16	833	16	833
8462100030	Headers and upsetters, including cold headers	3	2629	3	2629
100050	Forging or die stamping machines, and hammers, n.e.c.	23	2387	23	2387
210080	Bending, folding, straight. or flat. mach., incl presses, NC	34	3682	34	3682
290030	Press brakes, non-NC	27	578	27	578
290040	Bending rolls, non-NC	10	198	10	198
290050	Bending, folding, straight., or flat., n.e.c., non-NC	66	1444	66	1444
310080	Shearing machines, NC	12	1205	12	1205
390050	Shearing machines, non-NC	54	1321	54	1321
410080	Punching or notching mach., incl. comb. punch & shear, NC	14	1356	14	1356
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	27	546	27	546
910060	Hydraulic presses, NC	5	581	5	581
910090	Hydraulic presses, non-NC	77	5806	77	5806
990030	Presses, n.e.c., NC	5	377	5	377
990040	Presses, mechanical, non-NC	16	1550	16	1550
990060	Presses, n.e.c., non-NC	156	3369	156	3369
8463100080	Draw benches for bars, tubes, profiles, wire or the like	9	269	9	269
200080	Thread rolling machines	5	111	5	111
300080	Machines for working wire	57	2807	57	2807
900080	Metal forming machine tools, n.e.c.	178	4954	178	4954
9800000002	Used or rebuilt machine tools	243	5618	243	5618
9900000002	Machine tools valued at less than $2,500	302	215	302	215
	Forming Total			1339	41835
	Y-T-D Forming Total	1339	41835		
	NC Y-T-D Forming Total	70	7201		
	Cutting and Forming Totals:				
	Monthly Total			4671	103070
	Y-T-D Total	4671	103070		
	NC Y-T-D Total*	276	36008		

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
1000000000	Machine tool parts and accessories	0	58775	0	58775
2000000000	Parts for working rubber or plastics - heading 8477	0	20856	0	20856
2710003070	Quenching or cutting oils	0	674	0	674
8428900010	Industrial robots for lifting, handling, loading or unload	17	532	17	532
8431390090	Parts industrial robots, handling and loading - heading 8428	0	5311	0	5311
8456100000	Laser, light or photon beam for working any material	60	3863	60	3863
200000	Ultrasonic process for working any material	5	105	5	105
8477106010	Injection molding mach., for rubber or oth. thermosetting	12	1558	12	1558
106070	Injection molding mach., for thermoplastics	32	3388	32	3388
200010	Extruders for rubber or other thermosetting materials	24	1751	24	1751
200050	Extruders for processing thermoplastics	85	5472	85	5472
300000	Blow molding machines	33	1683	33	1683
400000	Vacuum-molding and other thermoforming machines	3949	1624	3949	1624
510010	Machines for molding or retreading pneumatic tires	121	1825	121	1825
510090	Machines for molding or otherwise forming inner tubes	34	2963	34	2963
590000	Machines for molding or otherwise forming n.e.c.	176	1942	176	1942
800000	Machines for working rubber or plastics n.e.c.	414	8181	414	8181
8479899040	Industrial robots, n.e.c.	731	7374	731	7374
908040	Industrial robot parts	0	5061	0	5061
8537100030	Numerical controls for controlling machine tools	220	3015	220	3015
9024100000	Machines and appliances for testing metals	0	6893	0	6893
9031100000	Machines for balancing mechanical parts	0	2441	0	2441
300000	Profile projectors	0	1071	0	1071
9032810040	Industrial process control instr., hydraulic or pneumatic	48346	3113	48346	3113

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	11	0	0	1	6	0	0	2	603
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	67	0	0	0	0	0	0	2	185
210080	1	29	0	0	0	0	0	0	6	912
290030	0	0	0	0	0	0	0	0	25	460
290040	1	8	0	0	0	0	0	0	6	94
290050	0	0	0	0	0	0	0	0	20	376
310080	0	0	0	0	0	0	0	0	1	149
390050	0	0	0	0	0	0	0	0	14	283
410080	0	0	0	0	0	0	0	0	1	195
490050	0	0	0	0	0	0	0	0	10	130
910060	0	0	0	0	0	0	0	0	1	228
910090	0	0	0	0	0	0	0	0	7	388
990030	0	0	0	0	0	0	0	0	3	185
990040	0	0	1	566	0	0	0	0	8	324
990060	0	0	0	0	0	0	0	0	13	170
8463100080	0	0	0	0	0	0	1	28	0	0
200080	0	0	0	0	0	0	0	0	3	61
300080	0	0	0	0	0	0	2	36	4	190
900080	4	101	0	0	0	0	0	0	22	248
9800000002	0	0	0	0	0	0	0	0	39	394
9900000002	0	0	0	0	12	13	0	0	0	0
Month Tot	8	216	1	566	13	20	3	65	187	5577
Y-T-D Tot	8	216	1	566	13	20	3	65	187	5577
NC YTD Tot	1	29	0	0	0	0	0	0	12	1669
C&F Month	65	2438	10	572	40	1388	138	3586	513	24708
C&F Y-T-D	65	2438	10	572	40	1388	138	3586	513	24708
C&F NC YTD*	6	1534	0	0	6	1100	1	380	65	10643

Other Manufacturing Technology

1000000000	0	699	0	53	0	588	0	928	0	15213
2000000000	0	439	0	186	0	440	0	129	0	7952
2710003070	0	25	0	0	0	0	0	0	0	50
8428900010	0	0	0	0	0	0	0	0	9	374
8431390090	0	215	0	31	0	59	0	0	0	950
8456100000	1	67	0	0	0	0	0	0	3	112
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	1	76	0	0	0	0	8	401
200010	0	0	0	0	0	0	0	0	6	252
200050	0	0	0	0	0	0	15	1331	12	699
300000	10	183	0	0	0	0	0	0	2	373
400000	0	0	0	0	0	0	2	336	7	220
510010	0	0	0	0	3	34	0	0	19	458
510090	0	0	0	0	0	0	0	0	0	0
590000	1	18	0	0	4	70	1	17	17	358
800000	1	58	0	0	0	0	0	0	146	5073
8479899040	6	33	0	0	0	0	2	76	495	5321
908040	0	0	0	12	0	0	0	0	0	1343
8537100030	1	21	0	0	0	0	0	0	18	211
9024100000	0	36	0	14	0	18	0	753	0	600
9031100000	0	0	0	0	0	0	0	0	0	510
300000	0	0	0	0	0	0	0	89	0	101
9032810040	1927	99	2428	121	635	32	114	13	1874	80

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	5	2	26	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	40	0	0	2	741
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	59	1	20	0	0	1	7	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	1	31	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	14	476	1	12	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	1	139
990040	1	147	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	7	0	0	0	0
8463100080	0	0	1	55	0	0	0	0	0	0
200080	0	0	0	0	1	26	0	0	0	0
300080	1	454	1	36	0	0	0	0	0	0
900080	0	0	8	202	1	6	0	0	0	0
9800000002	0	0	2	80	5	748	0	0	11	333
9900000002	0	0	7	6	0	0	0	0	7	3
Month Tot	19	1140	24	468	9	828	1	7	21	1215
Y-T-D Tot	19	1140	24	468	9	828	1	7	21	1215
NC YTD Tot	0	0	1	31	0	0	0	0	1	139
C&F Month	20	1268	252	2467	35	4371	3	87	76	3041
C&F Y-T-D	20	1268	252	2467	35	4371	3	87	76	3041
C&F NC YTD*	0	0	28	1581	4	1365	0	0	1	139

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	438	0	1345	0	418	0	8	0	1301
2000000000	0	58	0	290	0	802	0	58	0	361
2710003070	0	0	0	0	0	0	0	26	0	0
8428900010	0	0	2	64	0	0	0	0	1	31
8431390090	0	0	0	69	0	0	0	0	0	4
8456100000	0	0	2	662	0	0	0	0	2	46
200000	0	0	1	12	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	60
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	1	32	1	98	11	269	0	0	0	0
300000	0	0	0	0	0	0	0	0	3	17
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	1	24	49	10	4	74
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	2	39	0	0	0	0	0	0
800000	4	70	0	0	33	521	0	0	3	42
8479899040	0	0	0	0	0	0	0	0	3	40
908040	0	0	0	39	0	0	0	0	0	7
8537100030	0	0	24	332	3	41	0	0	5	69
9024100000	0	750	0	111	0	31	0	35	0	51
9031100000	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	51	0	0	0	0	0	6
9032810040	1111	56	2105	132	106	9	0	0	3701	203

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

Metal Forming	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	1	3	3	78	0	0
8462100030	2	2073	1	556	0	0	0	0	0	0
100050	5	597	4	285	0	0	2	73	0	0
210080	1	960	4	158	0	0	9	1056	0	0
290030	0	0	0	0	0	0	1	78	0	0
290040	0	0	0	0	0	0	1	26	0	0
290050	2	179	8	131	0	0	6	146	2	193
310080	4	170	2	646	0	0	1	53	4	187
390050	0	0	0	0	0	0	4	137	0	0
410080	0	0	0	0	0	0	3	246	2	355
490050	0	0	0	0	0	0	4	114	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	8	3660	0	0	34	810	2	21
990030	0	0	0	0	0	0	0	0	0	0
990040	2	261	0	0	0	0	0	0	4	252
990060	2	803	2	67	0	0	121	1183	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	3	20	0	0	0	0	2	109	2	20
900080	8	253	1	155	8	56	59	542	3	16
9800000002	3	52	36	2177	0	0	72	698	0	0
9900000002	38	22	0	0	0	0	83	58	0	0
Month Tot	70	5389	66	7834	9	59	405	5407	19	1045
Y-T-D Tot	70	5389	66	7834	9	59	405	5407	19	1045
NC YTD Tot	5	1130	6	804	0	0	13	1355	6	542
C&F Month	510	7668	206	11938	34	270	1264	9570	100	1450
C&F Y-T-D	510	7668	206	11938	34	270	1264	9570	100	1450
C&F NC YTD*	15	2379	32	2548	0	0	34	2498	7	558

Other Manufacturing Technology

1000000000	0	4442	0	1990	0	497	0	5066	0	462
2000000000	0	373	0	695	0	176	0	1913	0	924
2710003070	0	83	0	30	0	10	0	19	0	39
8428900010	0	0	0	0	3	4	0	0	0	0
8431390090	0	87	0	32	0	0	0	292	0	122
8456100000	19	1883	4	87	0	0	1	27	1	21
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	211	0	0	9	1186	0	0
106070	1	85	0	0	0	0	6	1229	1	48
200010	0	0	0	0	0	0	7	423	0	0
200050	2	1874	0	0	0	0	21	509	0	0
300000	0	0	0	0	0	0	10	207	0	0
400000	1	52	0	0	0	0	3872	883	0	0
510010	13	327	0	0	0	0	4	120	0	0
510090	0	0	18	2772	0	0	12	82	0	0
590000	63	36	17	266	0	0	24	498	0	0
800000	9	280	6	94	0	0	63	935	3	103
8479899040	1	17	14	154	0	0	14	207	0	0
908040	0	51	0	3116	0	0	0	3	0	11
8537100030	11	179	7	82	0	0	1	23	0	0
9024100000	0	1025	0	797	0	113	0	52	0	10
9031100000	0	26	0	1195	0	0	0	494	0	0
300000	0	632	0	0	0	0	0	44	0	0
9032810040	438	46	2219	175	0	0	779	108	8958	463

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	1	64
210080	0	0	0	0	0	0	4	194	0	0
290030	0	0	1	41	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	34	0	0	0	0	0	0	7	135
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	22	0	0
410080	0	0	0	0	0	0	5	383	0	0
490050	1	5	0	0	0	0	2	87	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	1	17	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	57	0	0	0	0	4	262	0	0
8463100080	0	0	1	30	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	85
900080	0	0	1	169	0	0	1	12	0	0
9800000002	3	100	1	45	0	0	0	0	0	0
9900000002	0	0	0	0	0	0	0	0	0	0
Month Tot	7	213	4	284	0	0	17	960	9	284
Y-T-D Tot	7	213	4	284	0	0	17	960	9	284
NC YTD Tot	0	0	0	0	0	0	9	577	0	0
C&F Month	50	796	16	709	12	278	143	2735	19	429
C&F Y-T-D	50	796	16	709	12	278	143	2735	19	429
C&F NC YTD*	1	38	1	268	0	0	21	1387	1	91

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1072	0	260	0	465	0	1068	0	388
2000000000	0	86	0	27	0	217	0	100	0	95
2710003070	0	24	0	0	0	0	0	27	0	10
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	212	0	3	0	5	0	345	0	0
8456100000	0	0	0	0	0	0	1	31	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	4	170	0	0	0	0
200010	0	0	0	0	0	0	4	816	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	2	834	0	0	0	0	0	0
400000	0	0	0	0	0	0	1	5	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	3	34	5	16	6	97	0	0
800000	0	0	1	97	1	23	1	9	0	0
8479899040	24	145	3	102	10	86	0	0	0	0
908040	0	45	0	48	0	6	0	0	0	0
8537100030	0	0	1	8	1	10	2	25	2	22
9024100000	0	52	0	0	0	8	0	64	0	0
9031100000	0	0	0	0	0	0	0	105	0	0
300000	0	22	0	0	0	0	0	49	0	0
9032810040	1632	151	1199	62	0	0	509	28	2491	132

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

Metal Forming	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	82	0	0	0	0	0	0	3	19
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	5	335
210080	0	0	0	0	1	28	0	0	8	345
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	2	70	0	0	0	0
290050	0	0	0	0	0	0	12	55	4	109
310080	0	0	0	0	0	0	0	0	0	0
390050	25	711	0	0	0	0	2	27	8	141
410080	2	145	0	0	0	0	0	0	0	0
490050	1	4	0	0	0	0	5	129	4	77
910060	1	336	0	0	0	0	0	0	3	18
910090	5	52	0	0	0	0	1	102	4	268
990030	1	52	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	2	55	8	695	2	71
8463100080	0	0	0	0	0	0	0	0	6	156
200080	0	0	0	0	0	0	0	0	1	24
300080	4	173	0	0	1	15	20	1451	16	217
900080	0	0	0	0	0	0	5	262	57	2932
9800000002	13	65	0	0	0	0	12	204	46	722
9900000002	51	45	0	0	0	0	83	33	21	35
Month Tot	105	1666	0	0	6	168	148	2957	188	5467
Y-T-D Tot	105	1666	0	0	6	168	148	2957	188	5467
NC YTD Tot	4	534	0	0	1	28	0	0	11	362
C&F Month	262	8757	0	0	7	172	312	5183	584	9188
C&F Y-T-D	262	8757	0	0	7	172	312	5183	584	9188
C&F NC YTD*	23	6457	0	0	1	28	6	691	23	2324

Other Manufacturing Technology

1000000000	0	7093	0	3	0	299	0	6230	0	8449
2000000000	0	1014	0	0	0	338	0	936	0	3248
2710003070	0	8	0	0	0	0	0	0	0	323
8428900010	1	13	0	0	0	0	1	46	0	0
8431390090	0	453	0	0	0	25	0	15	0	2392
8456100000	6	359	0	0	0	0	1	12	19	556
200000	4	93	0	0	0	0	0	0	0	0
8477106010	1	100	0	0	0	0	0	0	0	0
106070	1	85	0	0	0	0	7	1195	3	100
200010	2	40	0	0	1	40	0	0	4	181
200050	0	0	0	0	0	0	1	30	21	629
300000	1	11	0	0	0	0	1	12	4	46
400000	1	120	0	0	0	0	0	0	65	7
510010	1	73	0	0	0	0	0	0	27	704
510090	0	0	0	0	0	0	3	69	1	41
590000	13	199	1	15	0	0	15	224	4	53
800000	8	27	0	0	88	29	11	26	36	795
8479899040	38	224	1	46	0	0	79	583	41	340
908040	0	283	0	0	0	3	0	51	0	44
8537100030	102	1425	0	0	0	0	12	153	30	414
9024100000	0	449	0	207	0	16	0	1132	0	570
9031100000	0	25	0	0	0	8	0	3	0	74
300000	0	3	0	0	0	0	0	69	0	3
9032810040	4380	270	3	17	1504	144	1110	107	9123	664

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	2	155	0	0	2	155
East Germany	0	0	1	80	1	80
Finland	11	13	0	0	11	13
Greece	0	0	0	0	0	0
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	1	150	6	43	7	193
Luxembourg	0	0	0	0	0	0
Norway	5	9	2	16	7	25
Poland	13	14	8	345	21	359
Portugal	0	0	2	50	2	50
Romania	0	0	0	0	0	0
Sweden	8	5	18	165	26	170
Turkey	1	5	1	4	2	9
Yugoslavia	2	712	1	50	3	762
Oth Europe	0	0	0	0	0	0
TOTAL	788	16687	374	8974	1162	25661
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	0	0	0	0
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	2	14	0	0	2	14
Dominican Rep	0	0	6	156	6	156
El Salvador	0	0	5	82	5	82
Guatemala	7	13	1	24	8	36
Haiti	0	0	1	9	1	9
Honduras	60	334	0	0	60	334
Jamaica	0	0	0	0	0	0
Panama	0	0	2	42	2	42
Trinidad	0	0	0	0	0	0
Oth N & C Am.	7	68	1	3	8	71
TOTAL	1261	23723	608	11300	1869	35022
SOUTH AMERICA						
Argentina	0	0	2	33	2	33
Bolivia	0	0	0	0	0	0
Chile	15	661	4	3	19	664
Colombia	4	77	13	317	17	394
Ecuador	1	8	0	0	1	8
Paraguay	0	0	0	0	0	0
Peru	3	18	1	24	4	42
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	159	4289	29	610	188	4899
OCEANIA						
New Zealand	14	115	1	55	15	170
Oth Oceania	0	0	0	0	0	0
TOTAL	71	2338	9	271	80	2609

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	193	395	19	137	212	531
Iran	0	0	0	0	0	0
Iraq	1	4	45	2421	46	2425
Israel	12	293	22	450	34	743
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	1	57	0	0	1	57
Philippines	2	28	4	223	6	251
Qatar	0	0	0	0	0	0
Saudi Arabia	8	83	13	555	21	637
Sri Lanka	2	52	0	0	2	52
Syria	0	0	0	0	0	0
United Arab Emr	0	0	0	0	0	0
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	1032	13760	310	20500	1342	34260
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	0	0	7	117	7	117
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	21	439	2	63	23	502
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	21	439	9	180	30	619

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICS

No. 56-90 May 2, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – FEBRUARY 1990
(Millions of U.S. Dollars)

	Feb. 1990	Jan. 1990	Average Nov.-Jan.	~~Year to~~ Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 51.6	$ 61.2	$ 48.8	$112.9	$ 72.9	54.9%
Imports	$122.4	$173.5	$152.7	$295.9	$268.4	10.2%
Balance	($ 70.8)	($112.3)	($103.9)	($183.0)	($195.5)	(6.4%)
METAL FORMING MACHINE TOOLS						
Exports	$ 34.3	$ 41.8	$ 39.8	$ 76.2	$ 73.5	3.7%
Imports	$ 31.6	$ 42.6	$ 42.7	$ 74.2	$103.8	(28.5%)
Balance	$ 2.7	($ 0.8)	($ 2.9)	$ 2.0	($ 30.3)	N.M.
MACHINE TOOL TOTAL						
Exports	$ 86.0	$103.1	$ 88.6	$189.0	$146.5	29.0%
Imports	$154.0	$216.1	$195.4	$370.1	$372.1	(0.5%)
Balance	($ 68.0)	($113.0)	($106.8)	($181.1)	($225.7)	(19.8%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 29.0	$ 36.0	$ 24.8	$ 65.0	$ 37.4	73.8%
Imports	$ 84.0	$119.0	$108.6	$203.0	$177.6	14.3%
Balance	($ 55.0)	($ 83.0)	($ 83.8)	($138.0)	($140.2)	(1.6%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$138.5	$149.5	N.A.	$288.0	N.A.	N.A.
Imports	$160.3	$192.0	N.A.	$352.3	N.A.	N.A.
Balance	($ 21.8)	($ 42.5)	N.A.	$ 64.3	N.A.	N.A.

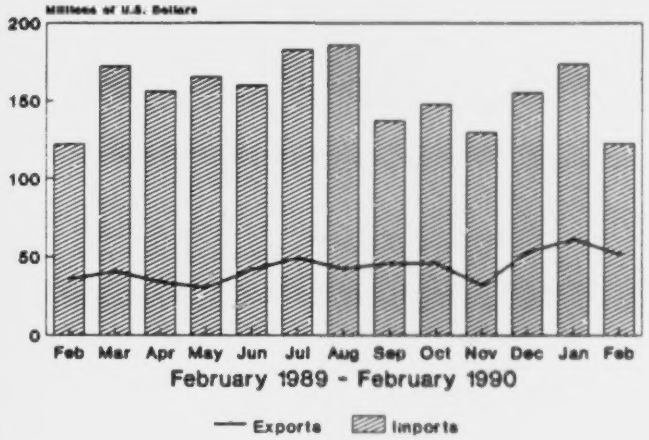
Note: Numerically controlled machine tools is a subgroup of the machine tool total. NA = not available; N.M. = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

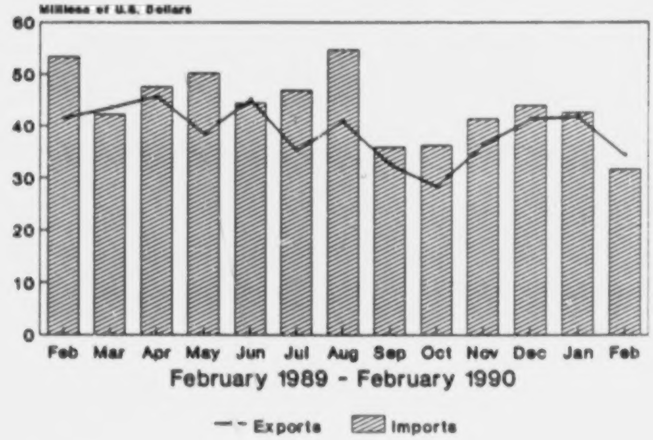
- Machine tool exports in February were $86.0 million. Average for the three months prior to February: $88.6 million.

- Machine tool imports were $154.0 million in February, the lowest level since May 1988. Average for the three months prior to February: $195.4 million.

- February is historically a slow month. From 1985-1989, imports and exports of machine tools in February were always lower than the monthly average for the year.

U.S. MONTHLY TRADE IN MACHINE TOOLS


METAL CUTTING


METAL FORMING

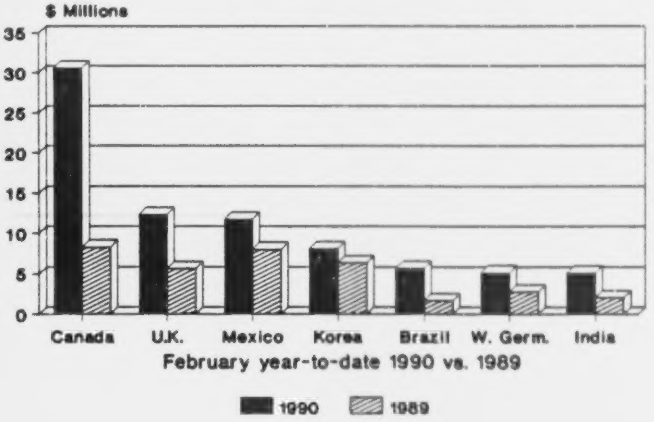
METAL CUTTING MACHINE TOOLS

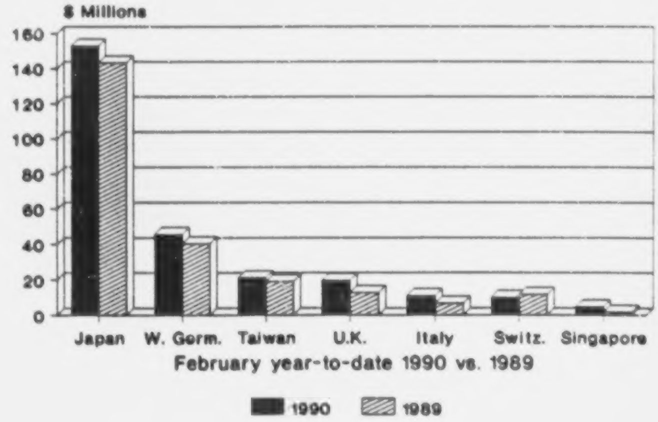
Exports

- Totalled $51.6 million in February, lower than January but higher than the average for the previous three months of $48.8 million.

- Leading year-to-date export markets: Canada ($30.6 million), the United Kingdom ($12.4 million) and Mexico ($11.8 million). Others to watch: Brazil ($5.7 million) and India ($5.1 million).

- Exports are down sharply to China ($1.5 million year-to-date 1990, vs. $5.1 million year-to-date 1989) and Venezuela ($0.2 million vs. $3.5 million).


LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES


LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES

Imports

- Totalled $122.4 million in February, down from $173.5 million in January and the average for the prior three months of $152.7 million.

- Japan supplied $56.7 million in February, down from $96.4 million in January and $76.2 million in December.

- Year-to-date totals from all major import sources except Switzerland, France and Belgium are higher in 1990 than in 1989. Largest suppliers year-to-date: Japan ($153.1 million), West Germany ($45.7 million) and Taiwan ($21.3 million).

- Major import categories year-to-date: machining centers ($73.4 million), NC horizontal lathes ($58.8 million), and grinding machines ($46.6 million).

METAL FORMING MACHINE TOOLS

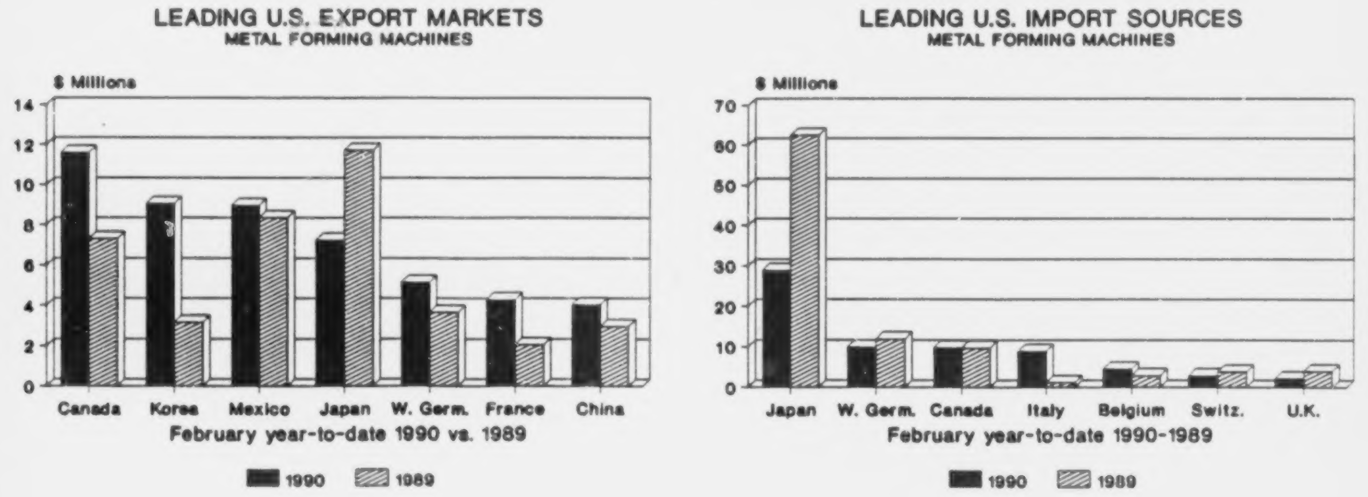
Exports

- Totalled $34.3 million in February, down from the average for the previous three months of $39.8 million, but enough to result in a rare trade surplus.

- Major markets so far in 1990: Canada ($11.6 million), Korea ($9.0 million) and Mexico ($9.0 million). Others to watch: West Germany ($5.2 million, up 41% over 1989), France ($4.3 million, up 109%) and India ($3.1 million, up 311%).

- Way down: United Kingdom ($2.4 million in 1990 through February, vs. $9.2 million in 1989 through February.)

METAL FORMING MACHINE TOOL FOREIGN TRADE



LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES

LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES

Imports

- Totalled $31.6 million in February, down 35% from January. Year-to-date imports are down 29% from 1989.

- Year-to-date imports from Japan ($28.9 million) are down 54% over 1989. Imports from Italy are up 615% to $8.9 million.

- Imports of presses year-to-date 1989: $37.4 million. Imports of presses year-to-date 1990: $10.5 million.

OTHER MANUFACTURING TECHNOLOGY

Exports

- Exports of machine tool parts and accessories were $60.7 million in February. Average for November-January: $58.1 million.

- Exports of industrial robots and parts in 1990 through February: $15.3 million.

- Exports of extruders for processing thermoplastics or other thermosetting materials in 1990 through February were $9.3 million, compared with $7.3 million in 1989.

Imports

- Imports of machine tool parts and accessories were $51.8 million in February, up from $49.0 million in January. Major sources in February: Japan ($13.0 million), Canada ($12.7 million) and West Germany ($9.9 million).

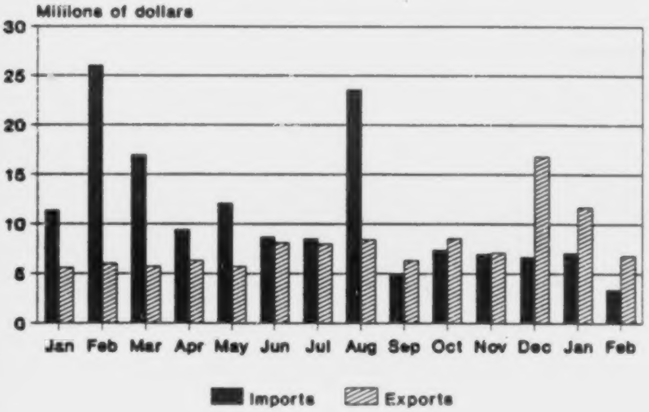
- Imports of injection molding machinery in February were $25.9 million, down from $29.4 million in January. Japan supplied $9.3 million of the February total.

- More than 1,000 numerical controls worth $4.0 million were imported in February. Japan supplied 98%, or $3.8 million, of the total.

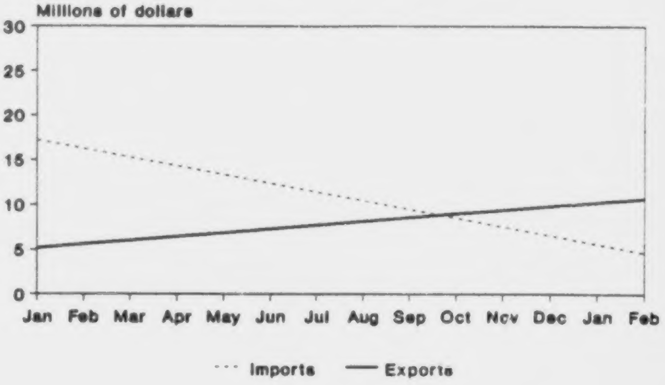
MONTHLY FOCUS

U.S. imports of presses averaged $14.6 million per month from January through August 1989, falling to $6.1 million on average since then. On the other hand, exports of presses from January through August 1989 averaged $6.7 million per month, rising to $9.5 million since then. The charts below detail U.S. monthly foreign trade in presses. The chart on the right shows that imports of presses are trending downwards, while exports of presses are trending upwards.

U.S. Imports and Exports of Presses
January 1989-February 1990



Trend Lines in U.S. Exports and Imports of Presses
January 1989 - February 1990



1990 EXPORTS

METAL CUTTING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'90	FEB YTD'89	%CHANGE
Canada	$11,495,877	$19,130,487	-39.91%	$30,626,364	$ 8,308,471	268.62%
U.K.	5,287,868	7,091,975	-25.44	12,379,843	5,639,451	119.52
Mexico	7,604,608	4,163,500	82.65	11,768,108	8,010,294	46.91
Korea	4,043,974	4,103,519	-1.45	8,147,493	6,397,698	27.35
Brazil	2,160,292	3,521,261	-38.65	5,681,553	1,720,419	230.24
West Germany	2,940,503	2,225,342	32.14	5,165,845	2,791,510	85.06
India	1,579,475	3,542,508	-55.41	5,121,983	2,052,436	149.56
Australia	1,547,184	2,222,694	-30.39	3,769,878	1,688,830	123.22
Italy	1,671,499	1,825,244	-8.42	3,496,743	3,290,622	6.26
Japan	1,104,197	2,279,351	-51.56	3,383,548	5,802,592	-41.69
Belgium	1,992,442	1,368,481	45.60	3,360,923	1,561,348	115.26
USSR	3,207,507	0	NA	3,207,507	670,302	378.52
France	879,517	1,999,186	-56.01	2,878,703	3,839,562	-25.03
Taiwan	275,253	1,774,960	-84.49	2,050,213	1,641,384	24.91
China	1,375,194	127,620	977.57	1,502,814	5,081,269	-70.42
Singapore	727,052	583,277	24.65	1,310,329	1,111,986	17.84
Spain	760,237	424,524	79.08	1,184,761	337,362	251.18
Switzerland	600,173	278,370	115.60	878,543	906,743	-3.11
Netherlands	309,122	404,565	-23.59	713,687	2,095,782	-65.95
Malaysia	53,507	211,781	-74.73	265,288	48,310	449.14
Thailand	92,412	144,661	-36.12	237,073	488,146	-51.43
Venezuela	157,747	4,077	3,769.19	161,824	3,716,229	-95.65
Indonesia	7,350	80,519	-90.87	87,869	370,815	-76.30
Austria	62,982	6,037	943.27	69,019	11,426	504.05

METAL FORMING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'90	FEB YTD'89	%CHANGE
Canada	$ 6,014,570	$ 5,577,252	7.84%	$11,591,822	$ 7,311,865	58.53%
Korea	1,214,849	7,834,296	-84.49	9,049,145	3,164,446	185.96
Mexico	3,575,859	5,406,892	-33.86	8,982,751	8,355,956	7.50
Japan	1,864,877	5,388,718	-65.39	7,253,595	11,719,572	-38.11
West Germany	2,202,505	2,957,432	-25.53	5,159,937	3,661,553	40.92
France	3,819,122	468,006	716.04	4,287,128	2,055,440	108.57
China	2,890,440	1,140,331	153.47	4,030,771	2,966,213	35.89
India	2,305,950	828,485	178.33	3,134,435	761,998	311.34
U.K.	776,672	1,665,510	-53.37	2,442,182	9,152,555	-73.32
Italy	555,565	1,215,381	-54.29	1,770,946	2,714,996	-34.77
Netherlands	398,194	1,045,192	-61.90	1,443,386	443,791	225.24
Taiwan	446,411	959,646	-53.48	1,406,057	1,206,173	16.57
Singapore	735,578	212,746	245.75	948,324	3,740,015	-74.64
Austria	164,383	566,000	-70.96	730,383	485,694	50.38
Spain	423,242	284,142	48.95	707,384	853,325	-17.10
Switzerland	595,044	0	NA	595,044	333,095	78.64
Australia	233,511	215,755	8.23	449,266	1,448,734	-68.99
Thailand	28,267	284,000	-90.05	312,267	70,037	345.86
Venezuela	74,748	168,125	-55.54	242,873	3,451,528	-92.96
Brazil	118,038	64,729	82.36	182,767	1,185,789	-84.59
Malaysia	61,668	58,564	5.30	120,232	148,857	-19.23
Belgium	70,369	19,639	258.31	90,008	47,062	91.25
Indonesia	0	6,965	-100.00	6,965	0	NA
USSR	0	0	NA	0	58,526	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'90	FEB YTD'89	%CHANGE
Canada	$17,510,447	$24,707,739	-29.13%	$42,218,186	$15,620,336	170.28%
Mexico	11,180,467	9,570,392	16.82	20,750,859	16,366,250	26.79
Korea	5,258,823	11,937,815	-55.95	17,196,638	9,562,144	79.84
U.K.	6,064,540	8,757,485	-30.75	14,822,025	14,792,006	0.20
Japan	2,969,074	7,668,069	-61.28	10,637,143	17,522,164	-39.29
West Germany	5,143,008	5,182,774	-0.77	10,325,782	6,453,063	60.01
India	3,885,425	4,370,993	-11.11	8,256,418	2,814,434	193.36
France	4,698,639	2,467,192	90.44	7,165,831	5,895,002	21.56
Brazil	2,278,330	3,585,990	-36.47	5,864,320	2,906,208	101.79
China	4,265,634	1,267,951	236.42	5,533,585	8,047,482	-31.24
Italy	2,227,064	3,040,625	-26.76	5,267,689	6,005,618	-12.29
Australia	1,780,695	2,438,449	-26.97	4,219,144	3,137,564	34.47
Taiwan	721,664	2,734,606	-73.61	3,456,270	2,847,557	21.38
Belgium	2,062,811	1,388,120	48.60	3,450,931	1,608,410	114.56
USSR	3,207,507	0	NA	3,207,507	728,828	340.09
Singapore	1,462,630	796,023	83.74	2,258,653	4,852,001	-53.45
Netherlands	707,316	1,449,757	-51.21	2,157,073	2,539,573	-15.06
Spain	1,183,479	708,666	67.00	1,892,145	1,190,687	58.91
Switzerland	1,195,217	278,370	329.36	1,473,587	1,239,838	18.85
Austria	227,365	572,037	-60.25	799,402	497,120	60.81
Thailand	120,679	428,661	-71.85	549,340	558,183	-1.58
Venezuela	232,495	172,202	35.01	404,697	7,167,757	-94.35
Malaysia	115,175	270,345	-57.40	385,520	197,167	95.53
Indonesia	7,350	87,484	-91.60	94,834	370,815	-74.43

1990 IMPORTS

METAL CUTTING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'90	FEB YTD'89	%CHANGE
Japan	$ 56,670,975	$ 96,409,162	-41.22%	$153,080,137	$143,386,526	6.76%
West Germany	20,005,082	25,716,456	-22.21	45,721,538	40,465,600	12.99
Taiwan	9,265,060	12,024,656	-22.95	21,289,716	19,100,046	11.46
U.K.	12,432,093	7,301,671	70.26	19,733,764	12,643,996	56.07
Italy	5,110,227	6,114,586	-16.43	11,224,813	6,700,910	67.51
Switzerland	3,297,745	6,922,891	-52.36	10,220,636	11,929,791	-14.33
Singapore	1,988,892	2,703,581	-26.43	4,692,473	1,781,834	163.35
Canada	3,085,334	1,016,497	203.53	4,101,831	3,340,328	22.80
Korea	1,653,654	2,236,678	-26.07	3,890,332	2,267,485	71.57
Spain	1,787,904	2,003,220	-10.75	3,791,124	2,797,504	35.52
France	2,139,634	1,164,643	83.72	3,304,277	8,713,095	-62.08
Sweden	568,833	2,261,885	-74.85	2,830,718	731,983	286.72
Brazil	1,026,207	972,426	5.53	1,998,633	1,405,190	42.23
Belgium	1,334	183,202	-99.27	184,536	1,714,391	-89.24

METAL FORMING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'90	FEB YTD'89	%CHANGE
Japan	$ 9,583,711	$ 19,339,002	-50.44%	$ 28,922,713	$ 62,559,776	-53.77%
West Germany	4,925,444	5,060,547	-2.67	9,985,991	11,942,547	-16.38
Canada	4,725,930	5,055,174	-6.51	9,781,104	9,746,440	0.36
Italy	4,365,742	4,570,942	-4.49	8,936,684	1,250,469	614.67
Belgium	1,698,167	2,911,568	-41.68	4,609,735	2,889,306	59.54
Switzerland	1,529,450	1,354,674	12.90	2,884,124	3,883,066	-25.73
U.K.	1,334,449	909,509	46.72	2,243,958	3,949,531	-43.18
Taiwan	1,151,822	755,929	52.37	1,907,751	1,375,310	38.71
Sweden	540,629	1,167,365	-53.69	1,707,994	1,587,138	7.61
Spain	319,333	177,194	80.22	496,527	94,124	427.52
France	120,803	168,658	-28.37	289,461	438,912	-34.05
Korea	1,311	0	NA	1,311	32,800	-96.00
Brazil	0	0	NA	0	11,025	-100.00
Singapore	0	0	NA	0	384,738	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'90	FEB YTD'89	%CHANGE
Japan	$ 66,254,686	$115,748,164	-42.76%	$182,002,850	$205,946,302	-11.63%
West Germany	24,930,526	30,777,003	-19.00	55,707,529	52,408,147	6.30
Taiwan	10,416,882	12,780,585	-18.49	23,197,467	20,475,356	13.29
U.K.	13,766,542	8,211,180	67.66	21,977,722	16,593,527	32.45
Italy	9,475,969	10,685,528	-11.32	20,161,497	7,951,379	153.56
Canada	7,811,264	6,071,671	28.65	13,882,935	13,086,768	6.08
Switzerland	4,827,195	8,277,565	-41.68	13,104,760	15,812,857	-17.13
Belgium	1,699,501	3,094,770	-45.08	4,794,271	4,603,697	4.14
Singapore	1,988,892	2,703,581	-26.43	4,692,473	2,166,572	116.59
Sweden	1,109,462	3,429,250	-67.65	4,538,712	2,319,121	95.71
Spain	2,107,237	2,180,414	-3.36	4,287,651	2,891,628	48.28
Korea	1,654,965	2,236,678	-26.01	3,891,643	2,300,285	69.18
France	2,260,437	1,333,301	69.54	3,593,738	9,152,007	-60.73
Brazil	1,026,207	972,426	5.53	1,998,633	1,416,215	41.12

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		FEB '90 Y-T-D TOTALS	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	2,899	$ 12,224,015	4,543	$ 10,935,156	7,442	$ 23,159,171
Boring Machines	13	958,297	8	1,407,307	21	2,365,604
Drilling Machines	110	2,255,419	53	920,425	163	3,175,844
Gear Cutting Machines	41	5,554,867	19	3,700,605	60	9,255,472
Grinding Machines	271	15,211,730	228	10,470,138	499	25,681,868
Horizontal Lathes NC	43	4,863,833	35	5,062,164	78	9,925,997
Vertical Lathes NC	5	1,223,137	0	0	5	1,223,137
Lathes Non-NC	58	1,113,041	48	1,473,294	106	2,586,335
Milling Machines	48	3,596,641	29	3,228,995	77	6,825,636
Machining Centers	65	7,526,957	34	6,062,752	99	13,589,709
Station Type Machines	10	5,374,341	28	7,752,282	38	13,126,623
Other Metal Cutting	314	7,165,369	312	7,438,893	626	14,604,262
Punching & Shearing	107	4,427,453	121	9,826,370	228	14,253,823
Bending Forming Machines	137	5,902,352	125	3,466,071	262	9,368,423
Presses	259	11,682,624	130	6,795,010	389	18,477,634
Forging Machines	26	5,015,295	16	2,278,536	42	7,293,831
Other Metal Forming	265	8,974,698	264	5,154,346	529	14,129,044
TOTAL	4,671	$103,070,069	5,993	$ 85,972,344	10,664	$189,042,413

PRODUCT TYPES	FEBRUARY 1989		FEB '89 Y-T-D TOTALS	
	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	3,732	$ 12,688,394	7,733	$ 22,340,057
Boring Machines	26	2,545,592	100	3,183,773
Drilling Machines	17	696,798	35	1,592,257
Gear Cutting Machines	21	2,086,374	57	7,535,102
Grinding Machines	294	8,944,628	524	16,779,498
Horizontal Lathes NC	5	461,768	21	2,481,050
Vertical Lathes NC	0	0	2	366,000
Lathes Non-NC	56	1,275,656	72	1,741,582
Milling Machines	89	3,273,726	155	8,177,596
Machining Centers	22	5,831,777	43	8,918,190
Station Type Machines	5	2,392,333	9	3,891,073
Other Metal Cutting	265	2,822,073	522	7,406,843
Punching & Shearing	127	7,132,924	190	10,090,421
Bending Forming Machines	104	3,074,999	188	6,508,139
Presses	115	5,951,499	248	11,541,596
Forging Machines	74	3,224,180	120	6,473,475
Other Metal Forming	266	14,907,382	588	27,447,994
TOTAL	5,218	$ 77,310,103	10,607	$146,474,646

PRODUCT TYPES	% CHANGE JAN 90' - FEB 90'		% CHANGE FEB 89' - FEB 90'		% CHANGE YTD 89' - YTD 90'	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	56.71%	-10.54%	21.73%	-13.82%	-3.76%	3.67%
Boring Machines	-38.46	46.85	-69.23	-44.72	-79.00	-25.70
Drilling Machines	-51.82	-59.19	211.76	32.09	365.71	99.46
Gear Cutting Machines	-53.66	-33.38	-9.52	77.37	5.26	22.83
Grinding Machines	-15.87	-31.17	-22.45	17.06	-4.77	53.06
Horizontal Lathes NC	-18.60	4.08	600.00	996.26	271.43	300.07
Vertical Lathes NC	-100.00	-100.00	NA	NA	150.00	234.19
Lathes Non-NC	-17.24	32.37	-14.29	15.49	47.22	48.50
Milling Machines	-39.58	-10.22	-67.42	-1.37	-50.32	-16.53
Machining Centers	-47.69	-19.45	54.55	3.96	130.23	52.38
Station Type Machines	180.00	44.25	460.00	224.05	322.22	237.35
Other Metal Cutting	-0.64	3.82	17.74	163.60	19.92	97.17
Punching & Shearing	13.08	121.94	-4.72	37.76	20.00	41.26
Bending Forming Machines	-8.76	-41.28	20.19	12.72	39.36	43.95
Presses	-49.81	-41.84	13.04	14.17	56.85	60.10
Forging Machines	-38.46	-54.57	-78.38	-29.33	-65.00	12.67
Other Metal Forming	-0.38	-42.57	-0.75	-65.42	-10.03	-48.52
TOTAL	28.30	-16.59	14.85	11.20	0.54	29.06

1990 U.S. IMPORTS
BY PRODUCT GROUPS

	JANUARY 1990		FEBRUARY 1990		FEB '90 Y-T-D TOTALS	
PRODUCT TYPES	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	80,165	$ 15,101,348	66,011	$ 10,754,274	146,176	$ 25,855,622
Boring Machines	40	2,511,474	57	2,665,242	97	5,176,716
Drilling Machines	187	5,976,518	66	1,331,591	253	7,308,109
Gear Cutting Machines	37	5,386,214	39	3,472,430	76	8,858,644
Grinding Machines	722	28,410,149	631	18,196,164	1,353	46,606,313
Horizontal Lathes NC	342	34,310,797	275	24,455,772	617	58,766,569
Vertical Lathes NC	23	2,826,480	9	1,890,507	32	4,716,987
Lathes Non-NC	609	9,691,329	474	8,086,596	1,083	17,777,925
Milling Machines	450	9,477,437	369	5,328,255	819	14,805,692
Machining Centers	368	44,495,101	262	28,896,262	630	73,391,363
Station Type Machines	16	4,428,004	9	2,400,678	25	6,828,682
Other Metal Cutting	543	14,026,009	390	15,984,088	933	30,010,097
Punching & Shearing	110	5,701,791	122	5,391,216	232	11,093,007
Bending Forming Machines	206	7,285,979	152	5,080,016	358	12,365,995
Presses	339	7,092,434	368	3,381,548	707	10,473,982
Forging Machines	82	8,532,715	121	5,829,041	203	14,361,756
Other Metal Forming	289	10,864,319	259	10,882,669	548	21,746,988
TOTAL	84,528	$216,118,098	69,614	$154,026,349	154,142	$370,144,447

	FEBRUARY 1989		FEB '89 Y-T-D TOTALS	
PRODUCT TYPES	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	28,520	$ 12,085,985	69,423	$ 22,199,640
Boring Machines	74	5,470,749	163	13,116,885
Drilling Machines	120	7,005,035	281	17,165,363
Gear Cutting Machines	23	2,222,717	69	6,581,023
Grinding Machines	606	14,282,507	1,166	27,842,371
Horizontal Lathes NC	321	27,833,919	687	61,521,424
Vertical Lathes NC	10	1,610,472	23	2,810,274
Lathes Non-NC	352	5,663,166	912	13,485,965
Milling Machines	316	8,491,551	726	18,213,959
Machining Centers	211	25,193,738	526	60,122,751
Station Type Machines	30	1,648,674	41	3,450,404
Other Metal Cutting	355	12,764,694	666	25,232,082
Punching & Shearing	153	5,222,761	314	12,276,312
Bending Forming Machines	194	7,673,335	377	16,040,132
Presses	189	25,984,776	428	37,371,350
Forging Machines	131	5,000,422	367	18,641,892
Other Metal Forming	939	7,345,113	1,068	16,069,897
TOTAL	32,544	$175,499,614	77,237	$372,141,724

	% CHANGE JAN 90' - FEB 90'		% CHANGE FEB 89' - FEB 90'		% CHANGE YTD 89' - YTD 90'	
PRODUCT TYPES	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	-17.66%	-28.79%	131.46%	-11.02%	110.56%	16.47%
Boring Machines	42.50	6.12	-22.97	-51.28	-40.49	-60.53
Drilling Machines	-64.71	-77.72	-45.00	-80.99	-9.96	-57.43
Gear Cutting Machines	5.41	-35.53	69.57	56.22	10.14	34.61
Grinding Machines	-12.60	-35.95	4.13	27.40	16.04	67.39
Horizontal Lathes NC	-19.59	-28.72	-14.33	-12.14	-10.19	-4.48
Vertical Lathes NC	-60.87	-33.11	-10.00	17.39	39.13	67.85
Lathes Non-NC	-22.17	-16.56	34.66	42.79	18.75	31.83
Milling Machines	-18.00	-43.78	16.77	-37.25	12.81	-18.71
Machining Centers	-28.80	-35.06	24.17	14.70	19.77	22.07
Station Type Machines	-43.75	-45.78	-70.00	45.61	-39.02	97.91
Other Metal Cutting	-28.18	13.96	9.86	25.22	40.09	18.94
Punching & Shearing	10.91	-5.45	-20.26	3.23	-26.11	-9.64
Bending Forming Machines	-26.21	-30.28	-21.65	-33.80	-5.04	-22.91
Presses	8.55	-52.32	94.71	-86.99	65.19	-71.97
Forging Machines	47.56	-31.69	-7.63	16.57	-44.69	-22.96
Other Metal Forming	-10.38	0.17	-72.42	48.16	-48.69	35.33
TOTAL	-17.64	-28.73	113.91	-12.24	99.57	-0.54

U.S. EXPORTS
Metal Cutting Machine Tools - February 90

RELEASED: May 2, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	10	692	8	479
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	14	2966	5	1205
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	4	906	3	803
100035	Horiz. mach. ctrs., ATC	4	2012	2	874
100045	Mach. ctrs., n.e.c.	77	7705	24	3181
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	1	89	0	0
300010	Multi-station transfer machines, NC	4	7325	1	2715
300090	Multi-station transfer machines, non-NC	22	4138	20	3938
8458110010	Horiz. lathes, multiple spindle, NC	6	1021	2	321
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	55	3979	24	1585
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	8	1600	3	569
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	9	3326	6	2588
190030	Horiz. engine or toolroom lathes, non-NC	25	397	4	56
190050	Automatic bar and/or chucking mach., single spindle, non-NC	1	104	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	21	827	15	660
190090	Horiz. lathes, n.e.c., non-NC	45	925	25	665
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	3	907	0	0
991050	Vertical turret lathes, non-NC	2	31	2	31
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	12	302	2	61
8459100000	Way-type unit head machines	11	1574	7	1100
210080	Other drilling machines, NC	18	1925	4	309
290040	Drilling machines, multiple spindle, non-NC	9	409	5	240
290050	Drilling machines, radial, non-NC	6	51	1	10
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	8	190	2	125
290090	Drilling machines, n.e.c., non-NC	122	602	41	236
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	2	1189
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	83	0	0
310070	Boring-milling mach., n.e.c., NC	2	61	1	29
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	0	0	0	0
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	11	167	3	37
400070	Boring machines, n.e.c., NC	1	104	1	104
400080	Boring machines, n.e.c., non-NC	3	382	1	48
510080	Milling machines, knee type, NC	3	140	1	27
590030	Milling machines, knee type, non-NC	20	604	13	375
610080	Milling machines, excl. knee type, n.e.c., NC	6	2724	3	1191
690050	Milling machines, profile, dup., or die sinking, non-NC	18	332	1	8
690070	Milling machines, bed type, non-NC	0	0	0	0
690090	Milling machines, n.e.c., non-NC	30	3026	11	1628
700020	Threading or tapping machines, n.e.c., NC	7	476	2	369
700080	Threading or tapping machines, n.e.c., non-NC	37	584	20	436
8460110080	Flat surface grinding mach., NC	5	177	2	83
190010	Flat surface grinding mach., recip.-table type, non-NC	9	250	2	39
190050	Flat surface grinding mach., n.e.c., non-NC	10	1808	2	335
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	15	5741	3	1609
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	6	1039	2	825
290030	Grinding mach., internal cylindrical, non-NC	4	96	0	0
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	90	3921	35	1949
310080	Sharpening machines (tool & cutter grinding), NC	6	167	3	68
390050	Sharpening machines (tool & cutter grinding), non-NC	116	5413	47	549
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	98	4496	66	3930
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	2	457	1	44
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	138	2116	65	1037
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	90	1278	28	618
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	14	368	9	142
300060	Broaching machines, NC	8	827	8	827
300080	Broaching machines, non-NC	3	325	1	29
401050	Gear hobbers	3	178	3	178
401070	Gear shapers	15	2485	3	1137
401090	Gear cutting machines, n.e.c.	18	4848	8	2279
405060	Gear grinding or finishing machines	24	1745	5	108
500050	Sawing or cutting-off machines, NC	41	1308	22	608
500090	Sawing or cutting-off machines, non-NC	279	4679	148	1681
9000000001	Metal cutting machine tools, n.e.c.	136	3956	66	2251
9800000001	Used or rebuilt machine tools	746	7741	312	2243
9900000001	Machine tools valued at less than $2,500	4571	2767	2651	1874
	Cutting Total			3757	51634
	Y-T-D Cutting Total	7089	112869		
	NC Y-T-D Cutting Total*	340	49615		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - February 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	5	314
8457100015	0	0	0	0	0	0	0	0	4	975
100025	0	0	0	0	0	0	0	0	3	803
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	13	1726	1	297	3	358
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	210
110030	0	0	0	0	1	111	0	0	0	0
110050	0	0	0	0	0	0	0	0	3	569
110090	0	0	0	0	0	0	0	0	6	2588
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	4	130
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	13
995090	1	41	0	0	0	0	0	0	1	20
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	35	1	166
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	10
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	13	59	22	120
310010	0	0	0	0	0	0	1	380	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	29
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	3	37
400070	0	0	0	0	0	0	0	0	1	104
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	21	0	0	0	0	0	0	8	235
610080	0	0	0	0	0	0	0	0	1	350
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	4	80
700020	0	0	0	0	0	0	0	0	0	0
700080	1	3	0	0	1	70	0	0	9	203
8460110080	0	0	0	0	0	0	1	18	0	0
190010	0	0	0	0	0	0	0	0	1	23
190050	0	0	0	0	0	0	0	0	1	89
210080	0	0	0	0	0	0	0	0	1	1214
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	7	354
310080	0	0	0	0	0	0	0	0	0	0
390050	1	46	0	0	1	9	0	0	17	263
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	8	1	6	4	28
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	8	0	0	1	180	16	195
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	40	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	12
300060	0	0	0	0	0	0	0	0	1	464
300080	0	0	0	0	0	0	0	0	1	29
401050	0	0	0	0	0	0	0	0	1	63
401070	0	0	0	0	0	0	2	1099	0	0
401090	2	1153	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	21	483
500090	0	0	0	0	0	0	0	0	22	276
9000000001	0	0	0	0	0	0	4	12	14	146
9800000001	25	242	0	0	0	0	7	61	41	222
9900000001	28	41	22	15	71	68	20	13	323	322
Month Tot	59	1547	24	63	88	1992	52	2160	554	11496
Y-T-D Tot	116	3770	33	69	115	3361	187	5682	880	30626
NC YTD Tot*	5	1505	0	0	20	2937	5	1110	103	17361

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - February 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	617	0	0	0	0	0	0	0	0
100045	1	373	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	8	527	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	2	31	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	9	140
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	48	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	4	0	0	0	0	2	41
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	1	25	0	0	0	0
610080	0	0	0	0	1	716	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	1	341	0	0	0	0
700080	0	0	0	0	1	3	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	246
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	214	0	0	12	413	0	0	4	413
310080	0	0	1	32	0	0	0	0	0	0
390050	1	28	1	44	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	51	0	0	11	135
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	3	40	1	8	0	0	1	3
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	16	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	2	664
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	4	61	0	0	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	2	26
9800000001	1	128	3	7	1	4	0	0	1	3
9900000001	0	0	128	86	29	21	34	7	10	3
Month Tot	6	1375	152	880	48	1579	34	7	43	1671
Y-T-D Tot	7	1503	380	2879	74	5122	36	88	98	3497
NC YTD Tot*	2	990	37	2158	6	2422	0	0	0	0

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - February 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	78	0	0	0	0	1	35	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	4	342	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	18	2178	0	0
8458110010	0	0	0	0	0	0	1	111	0	0
110030	0	0	0	0	0	0	1	57	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	3	70	1	340	0	0	0	0	0	0
190090	8	89	2	9	0	0	8	406	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	1	18	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	4	345	0	0	1	92	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	5	240	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	1	7	0	0
290090	0	0	0	0	0	0	2	10	0	0
310010	0	0	1	809	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	48	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	26	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	7	1548	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	1	65	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	2	825	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	5	277	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	11	76	0	0	9	46	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	33	1	25	0	0	1	4	0	0
900060	0	0	0	0	0	0	1	44	0	0
900080	2	21	2	20	1	4	16	345	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	170	16	251	0	0	5	29	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	75	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	2	115	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	1	172	0	0	0	0	2	222	0	0
405060	0	0	2	66	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	12	151	15	175	0	0	2	65	50	237
9000000001	2	47	5	590	0	0	7	741	2	59
9800000001	15	63	4	192	0	0	105	524	12	8
9900000001	281	69	44	42	5	3	639	401	19	5
Month Tot	340	1104	106	4044	15	54	831	7605	83	309
Y-T-D Tot	780	3384	246	8147	40	265	1690	11768	164	714
NC YTD Tot*	11	1314	27	2553	0	0	28	1698	2	66

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - February 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	55	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	2	663	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	34	0	0	0	0	0	0	0	0
610080	0	0	0	0	1	125	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	83	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	10	155	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	14	0	0	1	11	5	43	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	6	23	0	0	0	0	0	0	1	33
300060	7	363	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	1	24	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	6	109	0	0
9000000001	0	0	0	0	12	148	3	16	0	0
9800000001	14	231	3	4	45	114	3	35	4	50
9900000001	85	62	16	10	36	22	28	18	6	10
Month Tot	115	727	22	760	106	600	46	275	11	92
Y-T-D Tot	158	1310	34	1185	118	879	172	2050	21	237
NC YTD Tot*	8	400	1	268	1	125	12	810	1	91

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - February 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	52	0	0
8457100015	1	229	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	1	257	0	0
100045	1	45	0	0	0	0	1	40	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	2715	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	2	1760	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	12	765	0	0	0	0	2	125	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	2	25	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	57	0	0
190090	1	6	0	0	0	0	0	0	2	24
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	59	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	1	118
290090	1	3	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	1	27
590030	0	0	0	0	0	0	0	0	1	35
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	1	8	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	1	28
700080	0	0	0	0	2	6	0	0	6	152
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	1	16	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	145	0	0	0	0	1	250	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	5	195	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	2	36
390050	0	0	0	0	0	0	6	38	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	85	14	3208	0	0	12	122	7	72
900060	0	0	0	0	0	0	0	0	0	0
900080	2	18	0	0	1	11	8	108	2	7
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	50	0	0	3	62
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	38
401090	0	0	0	0	1	68	0	0	0	0
405060	1	9	0	0	0	0	0	0	1	9
500050	1	125	0	0	0	0	0	0	0	0
500090	12	214	0	0	0	0	3	51	22	341
9000000001	7	384	0	0	0	0	0	0	8	82
9800000001	2	98	0	0	0	0	5	33	21	224
9900000001	393	169	0	0	12	7	75	40	347	442
Month Tot	445	5288	14	3208	18	158	119	2941	426	1698
Y-T-D Tot	602	12380	14	3208	19	162	283	5166	822	5419
NC YTD Tot*	43	10383	0	0	0	0	11	1362	17	2062

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 90

RELEASED: May 2, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	58	1599	42	766
8462100030	Headers and upsetters, including cold headers	7	3847	4	1218
100050	Forging or die stamping machines, and hammers, n.e.c.	35	3447	12	1060
210080	Bending, folding, straight. or flat. mach., incl presses, NC	50	4504	16	821
290030	Press brakes, non-NC	38	989	11	411
290040	Bending rolls, non-NC	15	399	5	201
290050	Bending, folding, straight., or flat., n.e.c., non-NC	159	3477	93	2033
310080	Shearing machines, NC	15	1334	3	130
390050	Shearing machines, non-NC	76	1952	22	631
410080	Punching or notching mach., incl. comb. punch & shear, NC	42	7837	28	6481
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	95	3130	68	2585
910060	Hydraulic presses, NC	8	665	3	84
910090	Hydraulic presses, non-NC	111	6945	34	1139
990030	Presses, n.e.c., NC	19	1073	14	696
990040	Presses, mechanical, non-NC	18	2084	2	534
990060	Presses, n.e.c., non-NC	233	7711	77	4342
8463100080	Draw benches for bars, tubes, profiles, wire or the like	23	532	14	263
200080	Thread rolling machines	9	337	4	226
300080	Machines for working wire	94	3428	37	621
900080	Metal forming machine tools, n.e.c.	345	8233	167	3278
9800000002	Used or rebuilt machine tools	471	11329	228	5711
9900000002	Machine tools valued at less than $2,500	1654	1322	1352	1107

Forming Total			2236	34338
Y-T-D Forming Total	3575	76174		
NC Y-T-D Forming Total	134	15413		
Cutting and Forming Totals:				
Monthly Total			5993	85972
Y-T-D Total	10664	189042		
NC Y-T-D Total*	474	65028		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	119432	0	60657
2000000000	Parts for working rubber or plastics - heading 8477	0	45379	0	24524
2710003070	Quenching or cutting oils	0	1176	0	502
8428900010	Industrial robots for lifting, handling, loading or unload	25	847	8	316
8431390090	Parts industrial robots, handling and loading - heading 8428	0	11577	0	6266
8456100000	Laser, light or photon beam for working any material	115	6708	55	2845
200000	Ultrasonic process for working any material	16	354	11	249
8477106010	Injection molding mach., for rubber or oth. thermosetting	26	2406	14	848
106070	Injection molding mach., for thermoplastics	51	4505	19	1118
200010	Extruders for rubber or other thermosetting materials	50	2727	26	977
200050	Extruders for processing thermoplastics	136	6589	51	1118
300000	Blow molding machines	76	4277	43	2594
400000	Vacuum-molding and other thermoforming machines	3979	3084	30	1460
510010	Machines for molding or retreading pneumatic tires	160	4333	39	2508
510090	Machines for molding or otherwise forming inner tubes	71	7653	37	4690
590000	Machines for molding or otherwise forming n.e.c.	216	2942	40	1001
800000	Machines for working rubber or plastics n.e.c.	633	14338	219	6157
8479899040	Industrial robots, n.e.c.	1246	13404	515	6031
908040	Industrial robot parts	0	7717	0	2656
8537100030	Numerical controls for controlling machine tools	382	5316	162	2301
9024100000	Machines and appliances for testing metals	0	11499	0	4606
9031100000	Machines for balancing mechanical parts	0	4289	0	1848
300000	Profile projectors	0	1434	0	363
9032810040	Industrial process control instr., hydraulic or pneumatic	102689	5952	54343	2838

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	8	10	0	0	0	0	0	0	1	496
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	3	492
210080	0	0	0	0	0	0	0	0	3	122
290030	0	0	0	0	0	0	0	0	9	322
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	28	512
310080	1	65	0	0	0	0	0	0	1	34
390050	1	10	0	0	0	0	0	0	14	390
410080	0	0	0	0	0	0	0	0	5	858
490050	3	14	1	149	0	0	0	0	11	124
910060	0	0	0	0	0	0	1	14	0	0
910090	1	50	0	0	0	0	0	0	5	295
990030	0	0	0	0	0	0	0	0	2	16
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	28	393
8463100080	0	0	0	0	0	0	0	0	10	46
200080	0	0	0	0	0	0	0	0	0	0
300080	1	59	0	0	0	0	1	14	7	115
900080	0	0	1	7	0	0	0	0	17	267
9800000002	0	0	0	0	3	67	2	71	49	1404
9900000002	45	24	14	9	3	3	23	19	152	130
Month Tot	60	234	16	164	6	70	27	118	345	6015
Y-T-D Tot	68	449	17	730	19	90	30	183	532	11592
NC YTD Tot	2	94	0	0	0	0	1	14	23	2699
C&F Month	119	1781	40	227	94	2063	79	2278	899	17510
C&F Y-T-D	184	4219	50	799	134	3451	217	5864	1412	42218
C&F NC YTD*	7	1599	0	0	20	2937	6	1124	126	20061

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	700	0	154	0	341	0	1770	0	14554
2000000000	0	1572	0	169	0	528	0	370	0	5692
2710003070	0	32	0	0	0	0	0	0	0	12
8428900010	1	11	0	0	0	0	0	0	2	219
8431390090	0	170	0	31	0	60	0	5	0	1248
8456100000	0	0	0	0	0	0	0	0	2	302
200000	0	0	0	0	0	0	0	0	1	12
8477106010	0	0	0	0	0	0	0	0	1	41
106070	0	0	1	67	0	0	0	0	4	183
200010	0	0	0	0	0	0	0	0	19	817
200050	0	0	0	0	0	0	1	27	17	403
300000	1	100	0	0	0	0	0	0	2	309
400000	1	44	0	0	0	0	12	104	6	557
510010	0	0	0	0	0	0	2	44	4	1768
510090	2	190	0	0	0	0	0	0	0	0
590000	2	9	0	0	0	0	0	0	5	540
800000	1	11	0	0	13	200	4	58	61	2401
8479899040	2	10	0	0	0	0	0	0	393	3440
908040	0	0	0	0	0	11	0	0	0	637
8537100030	1	8	0	0	0	0	0	0	10	142
9024100000	0	79	0	10	0	34	0	0	0	600
9031100000	0	16	0	0	0	0	0	0	0	514
300000	0	0	0	0	0	0	0	0	0	48
9032810040	6600	353	3521	176	1348	67	5	4	2637	58

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	27	2	32	2	17	0	0	0	0
8462100030	0	0	1	667	0	0	0	0	1	113
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	4	94	1	15	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	2	2624	17	2434	0	0	0	0	0	0
490050	1	145	1	3	0	0	0	0	3	136
910060	1	5	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	1	220
990040	0	0	1	518	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	2	90	0	0	0	0	0	0	3	48
900080	0	0	0	0	6	86	0	0	1	34
9800000002	0	0	4	68	6	2135	0	0	0	0
9900000002	0	0	4	4	85	52	0	0	4	3
Month Tot	7	2890	34	3819	100	2306	0	0	13	556
Y-T-D Tot	26	4031	58	4287	109	3134	1	7	34	1771
NC YTD Tot	3	2629	18	2465	0	0	0	0	2	360
C&F Month	13	4266	186	4699	148	3885	34	7	56	2227
C&F Y-T-D	33	5534	438	7166	183	8256	37	95	132	5268
C&F NC YTD*	5	3619	55	4623	6	2422	0	0	2	360

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	295	0	1226	0	289	0	36	0	1312
2000000000	0	34	0	386	0	425	0	39	0	458
2710003070	0	0	0	0	0	0	0	102	0	0
8428900010	0	0	3	33	0	0	0	0	0	0
8431390090	0	48	0	155	0	133	0	0	0	0
8456100000	8	185	0	0	0	0	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	2	131
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	11	337
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	1	660	0	0	0	0	0	0
590000	0	0	0	0	0	0	0	0	0	0
800000	49	132	2	184	4	64	0	0	0	0
8479899040	0	0	14	84	0	0	0	0	0	0
908040	0	0	10	25	0	0	0	0	0	71
8537100030	0	0	6	88	0	0	0	0	6	82
9024100000	0	215	0	169	0	0	0	8	0	54
9031100000	0	17	0	4	0	52	0	0	0	3
300000	0	0	0	105	0	0	0	0	0	0
9032810040	1097	55	2003	107	10	3	94	5	2181	147

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 90

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	1	5	4	13	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	33	0	0	0	0	2	74	0	0
210080	2	132	0	0	1	37	2	70	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	3	114	0	0
290050	4	65	2	28	4	17	9	230	0	0
310080	0	0	0	0	0	0	0	0	1	31
390050	0	0	4	64	0	0	1	33	0	0
410080	0	0	0	0	0	0	2	240	0	0
490050	14	274	0	0	1	3	13	224	2	7
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	28	0	0	19	459	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	1	16	0	0
990060	4	249	1	594	0	0	19	599	6	169
8463100080	0	0	0	0	0	0	1	145	0	0
200080	0	0	0	0	0	0	1	27	1	132
300080	0	0	1	24	0	0	4	51	0	0
900080	22	596	12	323	0	0	36	288	2	25
9800000002	11	479	7	147	0	0	77	471	0	0
9900000002	42	37	9	6	0	0	589	522	33	34
Month Tot	100	1865	37	1215	7	62	783	3576	45	398
Y-T-D Tot	170	7254	103	9049	16	120	1188	8983	64	1443
NC YTD Tot	7	1262	6	804	1	37	17	1665	7	573
C&F Month	440	2969	143	5259	22	115	1614	11180	128	707
C&F Y-T-D	950	10637	349	17197	56	386	2878	20751	228	2157
C&F NC YTD*	18	2576	33	3357	1	37	45	3362	9	639

Other Manufacturing Technology

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	4776	0	3151	0	244	0	3943	0	351
2000000000	0	632	0	688	0	329	0	1458	0	23
2710003070	0	29	0	0	0	0	0	26	0	26
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	335	0	252	0	0	0	600	0	55
8456100000	22	1499	0	0	14	320	0	0	1	225
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	74	0	0	8	515	0	0
106070	0	0	0	0	0	0	11	635	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	5	47	0	0	0	0	14	200	0	0
300000	0	0	1	484	0	0	6	572	0	0
400000	3	30	4	684	2	4	1	28	0	0
510010	0	0	0	0	1	8	0	0	0	0
510090	2	3	1	70	0	0	4	33	0	0
590000	5	62	0	0	0	0	3	15	2	37
800000	2	63	10	137	0	0	25	333	2	29
8479899040	2	30	0	0	0	0	3	15	1	15
908040	0	207	0	13	0	3	0	3	0	0
8537100030	4	60	8	92	0	0	1	20	0	0
9024100000	0	764	0	214	0	6	0	174	0	58
9031100000	0	0	0	512	0	0	0	535	0	0
300000	0	126	0	25	0	0	0	4	0	7
9032810040	1388	160	1061	63	0	0	490	99	6687	361

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	7	25
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	3	302	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	5	0	0	2	60	1	30	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	1	71	0	0
490050	2	503	0	0	0	0	1	81	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	1	15	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	471	8	201	0	0
8463100080	0	0	3	71	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	2	50	0	0	0	0	0	0
900080	5	153	0	0	0	0	2	63	0	0
9800000002	5	33	0	0	0	0	0	0	0	0
9900000002	45	42	0	0	57	49	0	0	8	4
Month Tot	58	736	8	423	61	595	13	446	15	28
Y-T-D Tot	65	948	12	707	61	595	30	1406	24	312
NC YTD Tot	0	0	0	0	0	0	10	648	0	0
C&F Month	173	1463	30	1183	167	1195	59	722	26	121
C&F Y-T-D	223	2259	46	1892	179	1474	202	3456	45	549
C&F NC YTD*	8	400	1	268	1	125	22	1457	1	91

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1265	0	1391	0	675	0	1179	0	474
2000000000	0	105	0	181	0	64	0	130	0	57
2710003070	0	0	0	0	0	0	0	146	0	4
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	360	0	3	0	131	0	0	0	0
8456100000	1	21	0	0	2	165	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	8	142	0	0	0	0	0	0
400000	1	10	0	0	0	0	0	0	0	0
510010	0	0	10	284	0	0	0	0	0	0
510090	0	0	0	0	0	0	3	89	0	0
590000	1	4	0	0	7	5	1	128	0	0
800000	1	170	0	0	0	0	4	4	0	0
8479899040	0	0	2	49	22	209	0	0	0	0
908040	0	7	0	8	0	0	0	0	0	0
8537100030	1	16	0	0	0	0	3	44	1	9
9024100000	0	25	0	311	0	471	0	152	0	0
9031100000	0	18	0	0	0	0	0	0	0	0
300000	0	20	0	0	0	0	0	0	0	0
9032810040	489	58	396	26	383	22	949	95	9904	30

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	10	95	0	0	0	0	0	0	6	48
8462100030	0	0	0	0	0	0	2	438	0	0
100050	0	0	0	0	0	0	0	0	3	160
210080	0	0	0	0	0	0	2	128	6	332
290030	0	0	0	0	0	0	0	0	2	89
290040	0	0	0	0	0	0	0	0	2	86
290050	4	67	0	0	0	0	4	233	29	676
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	2	135
410080	0	0	0	0	0	0	1	254	0	0
490050	1	155	0	0	0	0	0	0	14	768
910060	1	65	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	4	128	3	164
990030	1	62	0	0	0	0	0	0	10	398
990040	0	0	0	0	0	0	0	0	0	0
990060	1	198	0	0	1	23	3	274	5	1170
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	1	48	1	19
300080	2	30	0	0	0	0	10	67	4	73
900080	0	0	0	0	0	0	22	410	41	1026
9800000002	6	69	0	0	1	40	10	175	47	552
9900000002	45	36	0	0	14	12	56	47	124	74
Month Tot	71	777	0	0	16	75	115	2203	299	5769
Y-T-D Tot	176	2442	0	0	22	243	263	5160	487	11236
NC YTD Tot	6	660	0	0	1	28	3	382	27	1092
C&F Month	516	6065	14	3208	34	232	234	5143	725	7467
C&F Y-T-D	778	14822	14	3208	41	405	546	10326	1309	16655
C&F NC YTD*	49	11044	0	0	1	28	14	1745	44	3155

Other Manufacturing Technology

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	5506	0	808	0	437	0	7648	0	8132
2000000000	0	431	0	0	0	499	0	1020	0	9234
2710003070	0	15	0	0	0	0	0	14	0	95
8428900010	0	0	0	0	0	0	1	42	1	11
8431390090	0	149	0	0	0	9	0	243	0	2278
8456100000	1	13	0	0	0	0	0	0	4	115
200000	0	0	0	0	0	0	0	0	10	237
8477106010	0	0	0	0	1	25	0	0	1	63
106070	3	233	0	0	0	0	0	0	0	0
200010	1	7	0	0	0	0	0	0	6	153
200050	0	0	0	0	0	0	1	35	2	70
300000	0	0	0	0	0	0	0	0	25	987
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	5	122	7	208	10	75
510090	10	3	3	84	0	0	2	44	9	3515
590000	7	15	0	0	0	0	1	86	6	98
800000	8	2015	0	0	0	0	3	76	30	280
8479899040	6	81	0	0	1	6	60	2038	9	56
908040	0	160	0	0	0	0	0	1419	0	94
8537100030	80	1135	0	0	0	0	16	239	25	367
9024100000	0	623	0	38	0	0	0	288	0	314
9031100000	0	23	0	0	0	11	0	34	0	107
300000	0	0	0	0	0	0	0	0	0	28
9032810040	4974	376	0	0	509	41	7002	395	615	138

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
February 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	4	83	18	3	22	86
East Germany	0	0	0	0	0	0
Finland	2	25	5	230	7	255
Greece	0	0	0	0	0	0
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	2	122	11	4	13	125
Luxembourg	0	0	0	0	0	0
Norway	34	118	0	0	34	118
Poland	1	4	0	0	1	4
Portugal	0	0	57	994	57	994
Romania	0	0	0	0	0	0
Sweden	7	95	12	1226	19	1321
Turkey	6	4	1	64	7	67
Yugoslavia	0	0	1	32	1	32
Oth Europe	0	0	0	0	0	0
TOTAL	1152	18162	474	11558	1626	29720
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	2	4	2	4
Belize	2	9	0	0	2	9
Bermuda	0	0	0	0	0	0
Costa Rica	0	0	1	42	1	42
Dominican Rep	13	76	40	888	53	964
El Salvador	0	0	2	18	2	18
Guatemala	0	0	6	14	6	14
Haiti	0	0	2	22	2	22
Honduras	0	0	10	20	10	20
Jamaica	6	8	0	0	6	8
Panama	0	0	0	0	0	0
Trinidad	1	4	1	9	2	13
Oth N & C Am.	1	22	2	103	3	125
TOTAL	1408	19219	1194	10710	2602	29929
SOUTH AMERICA						
Argentina	2	43	0	0	2	43
Bolivia	0	0	0	0	0	0
Chile	11	44	19	17	30	61
Colombia	11	32	4	170	15	201
Ecuador	29	44	2	5	31	49
Paraguay	0	0	0	0	0	0
Peru	2	6	4	71	6	77
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	125	2487	72	455	197	2942
OCEANIA						
New Zealand	3	4	17	126	20	130
Oth Oceania	0	0	0	0	0	0
TOTAL	62	1551	77	360	139	1910

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
February 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	176	380	9	168	185	548
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	15	204	7	442	22	646
Jordan	0	0	0	0	0	0
Kuwait	0	0	2	135	2	135
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	5	103	0	0	5	103
Philippines	0	0	1	7	1	7
Qatar	0	0	0	0	0	0
Saudi Arabia	4	36	32	311	36	347
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	18	17	13	19	31	35
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	939	9999	401	10630	1340	20629
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	1	20	11	445	12	465
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	35	75	0	0	35	75
South Africa	34	119	7	181	41	300
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	1	3	0	0	1	3
Oth Africa	0	0	0	0	0	0
TOTAL	71	217	18	626	89	843

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: May 2, 1990

U.S. IMPORTS - Metal Cutting Machine Tools - February 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	147	8612	81	5074
301050	Electro-discharge machines, n.e.c., NC	29	1089	21	666
301070	Electro-discharge machines, n.e.c., non-NC	77	1765	17	662
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	443	37781	209	16208
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	23	3824	5	689
100035	Horiz. mach. ctrs., ATC	121	27514	39	10678
100045	Mach. ctrs., n.e.c.	43	4273	9	1322
200010	Unit construction mach. (single station transfer), NC	7	629	2	140
200090	Unit construction mach. (single station transfer), non-NC	0	0	0	0
300010	Multi-station transfer machines, NC	5	1914	4	828
300090	Multi-station transfer machines, non-NC	13	4286	3	1433
8458110010	Horiz. lathes, multiple spindle, NC	71	11053	24	3777
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	423	30936	205	14496
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	110	14212	40	4996
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	13	2566	6	1187
190030	Horiz. engine or toolroom lathes, non-NC	612	6287	291	3128
190050	Automatic bar and/or chucking mach., single spindle, non-NC	96	4752	32	2478
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	19	1702	13	554
190090	Horiz. lathes, n.e.c., non-NC	157	1795	78	897
911060	Vertical turret lathes, multiple spindle, NC	6	1414	3	858
911080	Vertical turret lathes, n.e.c., NC	5	842	3	505
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	21	2461	3	528
991050	Vertical turret lathes, non-NC	37	600	2	351
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	162	2640	58	679
8459100000	Way-type unit head machines	0	0	0	0
210080	Other drilling machines, NC	65	4182	9	611
290040	Drilling machines, multiple spindle, non-NC	32	841	1	3
290050	Drilling machines, radial, non-NC	78	503	38	231
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	11	73	2	8
290090	Drilling machines, n.e.c., non-NC	67	1708	16	478
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	0	0	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	19	2257	7	1754
310070	Boring-milling mach., n.e.c., NC	4	325	0	0
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	6	476	2	215
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	16	842	11	273
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	7	386	4	60
400070	Boring machines, n.e.c., NC	7	396	0	0
400080	Boring machines, n.e.c., non-NC	38	495	33	364
510080	Milling machines, knee type, NC	84	1840	26	604
590030	Milling machines, knee type, non-NC	560	3956	269	1834
610080	Milling machines, excl. knee type, n.e.c., NC	55	3232	12	1147
690050	Milling machines, profile, dup., or die sinking, non-NC	6	28	1	4
690070	Milling machines, bed type, non-NC	13	616	7	139
690090	Milling machines, n.e.c., non-NC	101	5133	54	1599
700020	Threading or tapping machines, n.e.c., NC	26	1165	16	797
700080	Threading or tapping machines, n.e.c., non-NC	26	477	16	241
8460110080	Flat surface grinding mach., NC	16	882	2	62
190010	Flat surface grinding mach., recip.-table type, non-NC	174	2479	100	1441
190050	Flat surface grinding mach., n.e.c., non-NC	344	2898	158	1545
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	70	14030	25	4789
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	80	2286	34	1022
290030	Grinding mach., internal cylindrical, non-NC	19	2638	7	958
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	188	8069	94	3024
310080	Sharpening machines (tool & cutter grinding), NC	55	633	37	320
390050	Sharpening machines (tool & cutter grinding), non-NC	178	2120	87	730
400060	Honing or lapping machines, NC	8	901	2	323
400080	Honing or lapping machines, non-NC	33	628	10	227
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	11	461	2	255
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	177	8581	73	3500
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	1	5	1	5
200010	Shaping or slotting machines, NC	64	2237	1	241
200090	Shaping or slotting machines, non-NC	66	1018	20	55
300060	Broaching machines, NC	2	5118	2	5118
300080	Broaching machines, non-NC	16	912	12	71
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	11	1861	4	866
401040	Gear shapers	4	1230	1	95
401060	Gear cutting machines, n.e.c.	44	368	26	5
405050	Gear grinding or finishing for bevel gears	0	0	0	0
405070	Gear grinding or finishing machines, n.e.c.	17	5400	8	2506
500050	Sawing or cutting-off machines, NC	39	1448	18	146
500090	Sawing or cutting-off machines, non-NC	363	4298	126	1620
9000000001	Metal cutting machine tools, n.e.c.	77	1865	59	1268
9800000001	Used or rebuilt machine tools	258	5858	174	2906
9900000001	Machine tools valued at less than $2,500	143678	15798	64845	6815
	Cutting Total			67600	122428
	Y-T-D Cutting Total	149854	295903		
	NC Y-T-D Cutting Total	1997	188398		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - February 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	1	209	0	0
100045	0	0	0	0	0	0	0	0	4	102
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	78	0	0	0	0
300090	0	0	0	0	1	927	0	0	1	366
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	10	1312	1	107
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	69	478	1	25	1	6	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	43	355	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	2	0	0	1	337
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	28	133	6	16	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	2	335	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	3
290050	0	0	4	42	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	4	162	0	0	1	150
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	15	0	0	9	233
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	4	60
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	19	116	0	0	12	44
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	1	827	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	1357
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	5	0	0	3	48
8460110080	0	0	0	0	0	0	0	0	1	50
190010	0	0	0	0	0	0	0	0	16	292
190050	0	0	0	0	3	13	1	8	1	13
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	7	56	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	5	0	0	0	0
310080	0	0	0	0	0	0	6	13	0	0
390050	0	0	0	0	2	6	2	48	3	23
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	207	1	18	10	1366
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	20	55	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	41
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	1	6	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	13	116	0	0	20	129
9000000001	0	0	0	0	2	37	28	524	3	9
9800000001	0	0	0	0	12	37	0	0	2	12
9900000001	1	1	9	19	54	40	60	2	2458	368
Month Tot	1	1	153	1026	155	3085	110	2140	2553	5110
Y-T-D Tot	7	185	234	1999	285	4102	242	3304	5796	11225
NC YTD Tot	0	0	1	435	9	1284	21	1783	23	969

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - February 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	64	4790	0	0	0	0	0	0	0	0
301050	14	492	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	114	10607	8	484	20	1136	2	156	0	0
100025	3	532	0	0	0	0	0	0	0	0
100035	28	8015	0	0	0	0	0	0	0	0
100045	1	633	0	0	0	0	0	0	0	0
200010	0	0	1	59	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	255	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	18	2712	0	0	0	0	0	0	0	0
110030	180	13310	5	237	0	0	0	0	0	0
110050	27	3463	0	0	0	0	0	0	0	0
110090	1	193	0	0	0	0	0	0	0	0
190030	0	0	11	166	33	377	7	340	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	2	39	5	151	0	0	0	0	0	0
911060	0	0	1	159	0	0	0	0	0	0
911080	3	505	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	189	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	37	5	218	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	4	194	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	27	0	0	0	0	0	0	0	0
290070	2	8	0	0	0	0	0	0	0	0
290090	1	52	0	0	0	0	8	43	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	1	4
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	52	0	0	0	0	134	1042	0	0
610080	0	0	0	0	4	166	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	1	35	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	14	38	0	0
700020	16	797	0	0	0	0	0	0	0	0
700080	12	188	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	1	12	0	0
190010	32	697	0	0	16	231	0	0	0	0
190050	7	123	1	22	4	78	2	139	1	1
210080	8	1018	0	0	0	0	0	0	1	490
290010	3	191	0	0	0	0	0	0	0	0
290030	1	18	0	0	0	0	0	0	0	0
290050	29	2084	0	0	0	0	0	0	1	4
310080	0	0	0	0	0	0	0	0	0	0
390050	4	103	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	105	0	0	0	0	0	0	0	0
900060	2	255	0	0	0	0	0	0	0	0
900080	9	1171	4	27	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	1	241	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	2	302	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	262	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	21	793	0	0	0	0	0	0	0	0
9000000001	3	218	0	0	0	0	0	0	0	0
9800000001	18	1367	0	0	0	0	1	18	4	19
9900000001	3370	599	130	131	0	0	0	0	24	50
Month Tot	4009	56671	171	1654	77	1989	169	1788	32	569
Y-T-D Tot	10274	153080	234	3890	213	4692	353	3791	164	2831
NC YTD Tot	1276	130693	30	2141	56	3013	4	318	4	1436

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - February 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	1	136	16	148	0	0	0	0	0	0
301050	1	115	3	54	3	5	0	0	0	0
301070	5	429	10	168	1	8	0	0	1	56
8457100015	0	0	5	464	54	2898	2	158	4	305
100025	0	0	2	156	0	0	0	0	0	0
100035	0	0	1	145	1	94	8	2214	0	0
100045	0	0	0	0	0	0	3	555	1	32
200010	0	0	0	0	0	0	1	81	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	89	1	405	0	0
300090	0	0	0	0	0	0	1	140	0	0
8458110010	0	0	0	0	4	516	2	550	0	0
110030	1	86	8	442	3	127	0	0	8	293
110050	0	0	2	113	0	0	0	0	0	0
110090	0	0	0	0	0	0	5	994	0	0
190030	0	0	56	512	60	736	0	0	53	487
190050	0	0	29	226	0	0	3	2252	0	0
190070	1	376	8	43	0	0	0	0	4	135
190090	0	0	0	0	16	283	0	0	12	70
911060	0	0	0	0	0	0	1	622	1	78
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	2	351	0	0	0	0	0	0	0	0
995090	2	74	0	0	1	16	6	51	9	133
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	37	0	0	0	0	1	41	1	5
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	17	79	0	0	0	0	16	83
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	12	1	59
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	1	280	2	1344	4	130
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	1	211	0	0
390050	0	0	1	25	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	4	1	200	0	0
510080	1	92	17	234	7	267	0	0	1	11
590030	0	0	74	386	40	169	1	112	19	74
610080	1	10	0	0	4	57	2	87	0	0
690050	0	0	0	0	0	0	1	4	0	0
690070	0	0	6	104	0	0	0	0	0	0
690090	1	59	12	56	0	0	2	24	24	64
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	36	221	0	0	0	0	0	0
190050	6	53	107	842	4	106	8	19	13	128
210080	0	0	0	0	0	0	16	3282	0	0
290010	4	194	1	19	2	98	1	321	16	144
290030	4	514	0	0	0	0	2	426	0	0
290050	2	120	14	47	10	178	37	585	0	0
310080	0	0	16	54	0	0	15	253	0	0
390050	0	0	29	102	12	73	35	376	0	0
400060	0	0	0	0	0	0	2	323	0	0
400080	0	0	0	0	4	58	2	49	2	14
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	9	51	34	622	4	37
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	5
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	2	5118	0	0	0	0
300080	0	0	0	0	0	0	11	30	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	2	564	0	0
401040	0	0	0	0	0	0	1	95	0	0
401060	0	0	0	0	0	0	26	5	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	5	0	0	2	608	2	1586	1	40
500050	0	0	0	0	0	0	18	146	0	0
500090	3	72	8	29	10	51	14	263	37	168
9000000001	2	236	0	0	1	3	3	155	17	106
9800000001	13	326	0	0	40	397	73	671	11	58
9900000001	41	13	49017	4596	190	140	418	177	9073	679
Month Tot	93	3298	49495	9265	483	12432	765	20005	9334	3395
Y-T-D Tot	264	10221	111801	21290	1152	19734	1550	45722	17285	9839
NC YTD Tot	27	2876	185	4704	135	12386	171	23959	55	2402

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 90

RELEASED: May 2, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	85	1954	57	1302
8462100030	Headers and upsetters, including cold headers	30	3271	13	1629
100050	Forging or die stamping machines, and hammers, n.e.c.	173	11091	108	4200
210080	Bending, folding, straight. or flat. mach., incl presses, NC	92	4596	36	2010
290030	Press brakes, non-NC	40	1073	26	624
290040	Bending rolls, non-NC	23	832	12	492
290050	Bending, folding, straight., or flat., n.e.c., non-NC	203	5865	78	1954
310080	Shearing machines, NC	11	482	9	419
390050	Shearing machines, non-NC	89	2881	54	1176
410080	Punching or notching mach., incl. comb. punch & shear, NC	62	6269	38	3239
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	70	1461	21	557
910060	Hydraulic presses, NC	1	142	1	142
910090	Hydraulic presses, non-NC	519	2247	315	686
990030	Presses, n.e.c., NC	34	3121	0	0
990035	Mechanical transfer presses, non-NC	0	0	0	0
990045	Mechanical presses, n.e.c., non-NC	16	731	4	101
990060	Presses, n.e.c., non-NC	137	4233	48	2453
8463100080	Draw benches for bars, tubes, profiles, wire or the like	7	447	2	179
200080	Thread rolling machines	27	1376	7	361
300080	Machines for working wire	330	14470	164	7949
900080	Metal forming machine tools, n.e.c.	99	3501	29	1093
9800000002	Used or rebuilt machine tools	135	3152	71	674
9900000002	Machine tools valued at less than $2,500	2105	1047	921	360
	Forming Total			2014	31598
	Y-T-D Forming Total	4288	74241		
	NC Y-T-D Forming Total	200	14609		
	Cutting and Forming Totals:				
	Monthly Total			69614	154026
	Y-T-D Total	154142	370144		
	NC Y-T-D Total	2197	203007		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	100725	0	51757
2000000000	Parts for working rubber or plastics - heading 8477	0	56326	0	24345
2710003070	Quenching or cutting oils	0	38	0	13
8428900010	Industrial robots for lifting, handling, loading or unload	833	6797	602	2914
8431390080	Parts industrial robots, handling and loading - heading 8428	0	15247	0	6895
8456101010	Laser, light or photon beam for working metal, NC	30	6229	14	2745
101020	Laser, light or photon beam for working metal, non-NC	25	208	24	207
105000	Laser, light or photon beam for other materials	20	155	9	125
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	2	22	2	22
205000	Ultrasonic processes for working other materials	1	38	0	0
8477103000	Injection molding mach., for manufacturing shoes	18	909	18	909
106010	Injection molding mach., for rubber or oth. thermosetting	141	11527	80	6824
106050	Injection molding mach., for thermoplastics	468	42824	274	18163
200010	Extruders for rubber or other thermosetting materials	36	3296	21	905
200050	Extruders for processing thermoplastics	150	12007	104	7680
300000	Blow molding machines	108	8210	28	2276
400000	Vacuum-molding and other thermoforming machines	20	1148	6	573
510010	Machines for molding or retreading pneumatic tires	81	8533	18	3876
510090	Machines for molding or otherwise forming inner tubes	32	1505	14	49
590000	Machines for molding or otherwise forming n.e.c.	140	21744	35	5436
800000	Machines for working rubber or plastics n.e.c.	1232	25504	797	7369
8479899040	Industrial robots, n.e.c.	3536	11727	2069	7435
908040	Industrial robot parts	0	5347	0	3031
8537100030	Numerical controls for controlling machine tools	2872	7051	1074	4003
9024100000	Machines and appliances for testing metals	0	2117	0	1450
9031100000	Machines for balancing mechanical parts	0	1255	0	261
300000	Profile projectors	0	926	0	542
9032810020	Industrial process control instr., hydraulic	17994	178	10525	100
810060	Industrial process control instr., pneumatic	34827	718	7161	406

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 90

Metal Forming	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	7	585	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	5	285
100050	0	0	0	0	6	369	52	46	1	24
210080	0	0	0	0	2	208	0	0	2	125
290030	6	195	0	0	20	430	0	0	0	0
290040	0	0	0	0	0	0	0	0	2	109
290050	2	14	0	0	17	178	0	0	11	98
310080	8	392	0	0	0	0	0	0	0	0
390050	0	0	0	0	9	170	0	0	1	396
410080	0	0	0	0	0	0	0	0	1	54
490050	0	0	0	0	4	229	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	5	314	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	1	5	0	0	0	0
990060	0	0	0	0	6	403	0	0	2	169
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	1	48
300080	28	999	0	0	7	1396	1	24	29	2799
900080	0	0	0	0	5	35	0	0	7	221
9800000002	3	99	0	0	27	398	1	51	0	0
9900000002	0	0	0	0	14	5	0	0	111	38
Month Tot	47	1698	0	0	130	4726	54	121	173	4366
Y-T-D Tot	95	4610	0	0	338	9781	69	289	281	8937
NC YTD Tot	10	1699	0	0	3	218	2	20	32	483
C&F Month	48	1700	153	1026	285	7811	164	2260	2726	9476
C&F Y-T-D	102	4794	234	1999	623	13883	311	3594	6077	20161
C&F NC YTD	10	1699	1	435	12	1501	23	1803	55	1453

Other Manufacturing Technology

1000000000	0	922	0	22	0	12738	0	673	0	1407
2000000000	0	7	0	0	0	4902	0	1853	0	438
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	0	0	9	95	0	0	0	0
8431390080	0	18	0	25	0	844	0	32	0	45
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	9	751
106010	0	0	0	0	3	618	6	769	0	0
106050	0	0	0	0	45	4783	3	71	6	321
200010	1	9	0	0	1	7	0	0	6	65
200050	1	2	0	0	13	338	0	0	12	2176
300000	0	0	0	0	1	4	0	0	0	0
400000	0	0	0	0	2	45	0	0	0	0
510010	0	0	0	0	12	1365	1	39	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	3	85	0	0	1	50
800000	22	118	0	0	41	333	276	1478	4	375
8479899040	1	52	0	0	561	38	0	0	2	148
908040	0	6	0	0	0	26	0	22	0	51
8537100030	0	0	0	0	0	0	0	0	28	25
9024100000	0	6	0	0	0	28	0	19	0	82
9031100000	0	0	0	0	0	0	0	25	0	7
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	2	5	0	0	0	0
810060	0	0	0	0	0	0	0	0	669	59

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	14	121	0	0	0	0	0	0	0	0
8462100030	7	1204	0	0	0	0	0	0	0	0
100050	23	2275	0	0	0	0	0	0	0	0
210080	28	1369	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	4	349
290050	13	1161	0	0	0	0	0	0	8	123
310080	0	0	0	0	0	0	0	0	0	0
390050	9	322	0	0	0	0	0	0	1	16
410080	13	1392	0	0	0	0	0	0	0	0
490050	2	80	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	80	93	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	1	76	0	0	0	0	0	0	0	0
990060	13	483	0	0	0	0	4	12	1	8
8463100080	2	179	0	0	0	0	0	0	0	0
200080	1	41	0	0	0	0	5	271	0	0
300080	15	713	0	0	0	0	0	0	1	4
900080	3	8	0	0	0	0	0	0	0	0
9800000002	1	42	0	0	0	0	0	0	1	13
9900000002	79	25	3	1	0	0	34	36	39	27
Month Tot	304	9584	3	1	0	0	43	319	55	541
Y-T-D Tot	676	28923	3	1	0	0	58	497	270	1708
NC YTD Tot	96	7828	0	0	0	0	0	0	2	195
C&F Month	4313	66255	174	1655	77	1989	212	2107	87	1109
C&F Y-T-D	10950	182003	237	3892	213	4692	411	4288	434	4539
C&F NC YTD	1372	138521	30	2141	56	3013	4	318	6	1631

Other Manufacturing Technology

1000000000	0	13019	0	307	0	865	0	431	0	933
2000000000	0	6865	0	101	0	110	0	19	0	179
2710003070	0	6	0	0	0	0	0	0	0	0
8428900010	64	1524	0	0	0	0	0	0	5	65
8431390080	0	371	0	0	0	0	0	0	0	130
8456101010	10	1839	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	1	5	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	36	2888	4	184	3	181	0	0	0	0
106050	50	6366	2	53	1	13	0	0	1	15
200010	5	600	0	0	0	0	0	0	0	0
200050	9	2160	0	0	0	0	0	0	10	415
300000	12	463	1	24	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	4	2101	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	1	2
590000	8	4794	0	0	0	0	0	0	2	140
800000	83	3218	0	0	1	220	0	0	0	0
8479899040	1463	5774	0	0	0	0	0	0	4	330
908040	0	1603	0	0	0	6	0	0	0	91
8537100030	982	3932	0	0	0	0	0	0	0	0
9024100000	0	342	0	0	0	0	0	0	0	0
9031100000	0	25	0	0	0	0	0	0	0	17
300000	0	145	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	1	8
810060	150	2	0	0	0	0	0	0	800	161

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	2	593	34	2
8462100030	0	0	0	0	0	0	1	139	0	0
100050	2	142	0	0	11	752	5	60	8	533
210080	0	0	2	76	0	0	1	105	1	128
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	2	24	0	0	0	0	4	11
290050	1	14	2	5	4	48	0	0	20	311
310080	1	27	0	0	0	0	0	0	0	0
390050	0	0	0	0	18	93	13	128	3	51
410080	1	272	0	0	0	0	23	1520	0	0
490050	1	5	12	39	0	0	2	203	0	0
910060	0	0	0	0	0	0	1	142	0	0
910090	8	38	205	71	0	0	9	80	8	89
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	2	20	0	0
990060	0	0	13	658	2	321	7	398	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	6	559	3	29	0	0	73	1348	1	79
900080	1	453	3	118	7	111	3	146	0	0
9800000002	6	10	0	0	11	8	20	39	1	14
9900000002	141	9	286	132	12	2	51	3	151	83
Month Tot	168	1529	528	1152	65	1334	213	4925	231	1301
Y-T-D Tot	197	2884	1065	1908	167	2244	432	9986	637	2474
NC YTD Tot	5	623	3	82	0	0	38	2975	9	487
C&F Month	261	4827	50023	10417	548	13767	978	24931	9565	4697
C&F Y-T-D	461	13105	112866	23197	1319	21978	1982	55708	17922	12313
C&F NC YTD	32	3498	188	4785	135	12386	209	26933	64	2888

Other Manufacturing Technology

1000000000	0	3202	0	1548	0	2849	0	9892	0	2950
2000000000	0	787	0	428	0	662	0	6621	0	1372
2710003070	0	0	0	0	0	0	0	7	0	0
8428900010	1	76	0	0	4	206	518	233	1	714
8431390080	0	2583	0	134	0	756	0	920	0	1036
8456101010	0	0	0	0	1	652	1	104	2	150
101020	0	0	0	0	0	0	24	207	0	0
105000	0	0	0	0	6	123	0	0	3	2
201010	0	0	0	0	0	0	0	0	0	0
201050	1	17	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	1	149	4	4	3	4	1	2	0	0
106010	1	351	14	824	0	0	12	465	1	544
106050	4	655	10	376	6	43	108	3029	38	2439
200010	1	44	0	0	1	29	1	89	5	63
200050	2	990	11	462	13	214	33	923	0	0
300000	0	0	0	0	0	0	13	1699	1	86
400000	0	0	0	0	0	0	3	443	1	84
510010	0	0	0	0	0	0	0	0	1	371
510090	1	34	0	0	0	0	12	13	0	0
590000	0	0	0	0	15	242	3	99	3	25
800000	146	219	4	244	15	272	132	864	73	27
8479899040	2	316	0	0	5	110	11	629	20	39
908040	0	198	0	23	0	227	0	747	0	31
8537100030	0	0	0	0	0	0	62	23	2	23
9024100000	0	56	0	0	0	775	0	13	0	129
9031100000	0	0	0	0	0	20	0	45	0	122
300000	0	35	0	0	0	289	0	73	0	1
9032810020	207	6	0	0	0	0	1	2	10314	79
810060	0	0	3908	9	14	6	4	5	1616	165

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
February 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	218	647	1	98	219	745
Bulgaria	0	0	0	0	0	0
Czechoslovakia	7	86	1	85	8	172
Denmark	24	105	15	85	39	191
East Germany	7	179	0	0	7	179
Finland	1	59	33	31	34	90
Hungary	1	70	0	0	1	70
Ireland	2	4	0	0	2	4
Luxembourg	0	0	0	0	0	0
Netherlands	1	9	0	0	1	9
Norway	0	0	1	79	1	79
Poland	14	118	0	0	14	118
Portugal	0	0	5	79	5	79
Romania	0	0	0	0	0	0
USSR	0	0	0	0	0	0
Yugoslavia	67	457	5	369	72	826
Oth Europe	0	0	2	65	2	65
TOTAL	4548	47076	881	15727	5429	62803
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	127	56	0	0	127	56
Mexico	7	10	33	88	40	98
Oth N & C Am.	0	0	0	0	0	0
TOTAL	289	3152	163	4814	452	7966
SOUTH AMERICA						
Argentina	2	14	0	0	2	14
Chile	0	0	0	0	0	0
Colombia	1	15	0	0	1	15
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	156	1056	0	0	156	1056
OCEANIA						
Australia	2	20	0	0	2	20
New Zealand	1	5	98	141	99	145
Oth Oceania	0	0	0	0	0	0
TOTAL	3	25	98	141	101	165

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
February 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	8509	934	0	0	8509	934
Hong Kong	310	109	0	0	310	109
India	13	99	0	0	13	99
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	20	398	36	30	56	428
Malaysia	0	0	1	150	1	150
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	62604	71119	872	10917	63476	82036
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

18620-3

REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703)827-5260

STATISTICAL

No. 71-90 May 30, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – MARCH 1990
(Millions of U.S. Dollars)

	Mar. 1990	Feb. 1990	Average Dec.-Feb.	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 60.4	$ 51.6	$ 55.3	$173.2	$113.6	52.5%
Imports	$129.8	$122.4	$150.3	$425.7	$440.5	(3.4%)
Balance	($ 69.4)	($ 70.8)	($ 95.0)	($252.5)	($326.9)	(22.8%)
METAL FORMING MACHINE TOOLS						
Exports	$ 40.1	$ 34.3	$ 39.2	$ 116.3	$117.0	(0.6%)
Imports	$ 38.5	$ 31.6	$ 39.4	$ 112.7	$146.1	(22.9%)
Balance	$ 1.6	$ 2.7	($ 0.2)	$ 3.6	($ 29.1)	N.M.
MACHINE TOOL TOTAL						
Exports	$100.5	$ 86.0	$ 94.5	$289.5	$230.6	25.5%
Imports	$168.3	$154.0	$189.7	$538.5	$586.6	(8.2%)
Balance	($ 67.8)	($ 68.0)	($ 95.2)	($249.0)	($356.0)	(30.1%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 35.0	$ 29.0	$ 29.2	$100.0	$ 58.4	71.2%
Imports	$ 90.8	$ 84.0	$104.8	$293.8	$299.4	(1.8%)
Balance	($ 55.8)	($ 55.0)	($ 75.6)	($193.8)	($241.0)	(19.5%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$162.0	$138.5	N.A.	$450.0	N.A.	N.A.
Imports	$154.6	$160.3	N.A.	$506.9	N.A.	N.A.
Balance	$ 7.4	($ 21.8)	N.A.	($ 56.9)	N.A.	N.A.

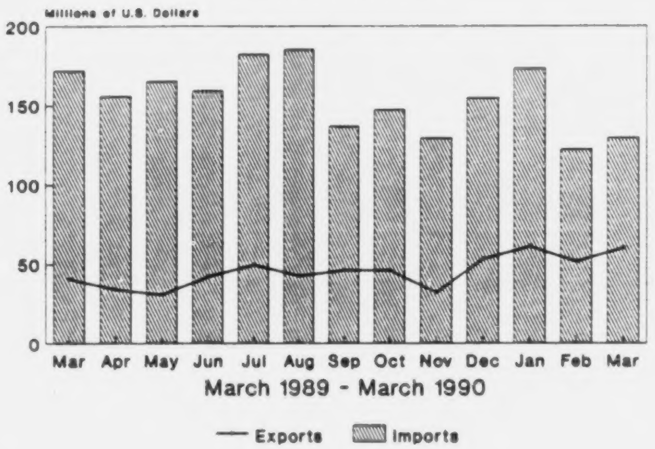
Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; N.M. = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

- For the second time in three months, **U.S. machine tool exports reached over $100 million**. Prior to this year, exports had not exceeded this level since 1981.

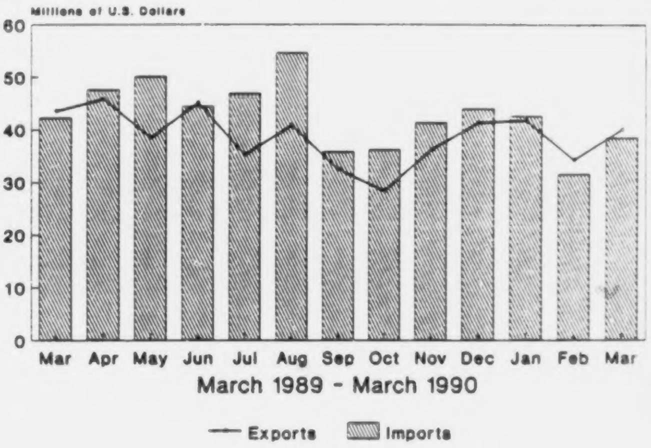
- The 1990 machine tool trade balance has improved by 30% compared with the first quarter of 1989, to a deficit of $249 million. **At this pace, the industry trade deficit for 1990 annualized would hit its lowest level since 1985**. The improvement is the result of both higher exports and lower imports.

- U.S. exports of numerically controlled machine tools are 71% above the first quarter 1989 level. Canada is by far the leading NC market at $30.1 million, followed by the United Kingdom at $15.2 million.

U.S. MONTHLY TRADE IN MACHINE TOOLS



METAL CUTTING



METAL FORMING

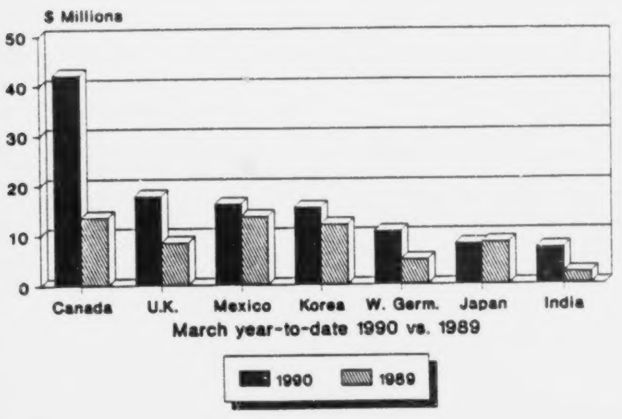
METAL CUTTING MACHINE TOOLS

Exports

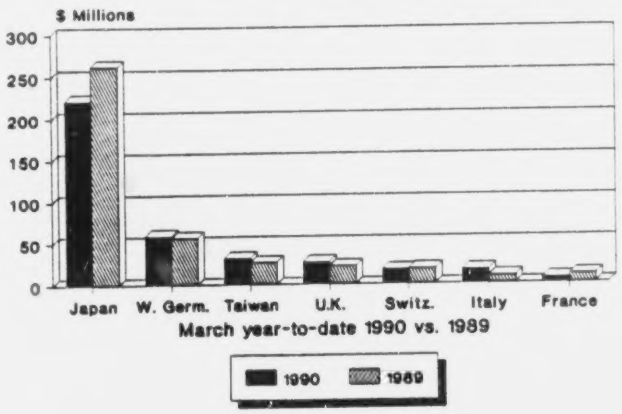
- Metal cutting exports of $60.4 million in March and $61.2 in January of 1990, represent the highest levels since 1981. These figures compare to a monthly average of $40.7 million during 1989, and just $37.0 million in 1988.

- Among fast growing export markets not in the top ten: exports to **Australia and Thailand** have nearly doubled during the first quarter of 1990, to $4.6 million and $1.0 million respectively; while shipments are up about five-fold to the **Soviet Union and Malaysia** compared with 1989 to $3.2 million and $0.4 million, respectively.

- Thus far in 1990, nearly every U.S. export category is up. **Grinding machines** show the largest export total, $38.3 million. While the value of grinding machine exports is up by 35%, the unit figure is down 7%.



LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES

Imports

- U.S. metal cutting imports of $129.8 million during March and $122.4 million in February are the smallest two-month import totals since 1988.

- Imports from Japan are down 16% from 1989 to $221.5 million. Countries showing large increases to the United States thus far in 1990 include: Italy, up 84% to $16.6 million; Singapore and Brazil, each doubling exports at $5.6 million and $4.1 million, respectively; and Sweden more than tripled to $3.4 million.

- During the first quarter of 1990, U.S. imports of boring machines are down 68% to $7.3 million, drilling machines are off 50% to $12.1 million, horizontal NC lathes have fallen 15% to $83.1 million, and milling machine imports are down 45% to $19.3 million.

METAL FORMING MACHINE TOOLS

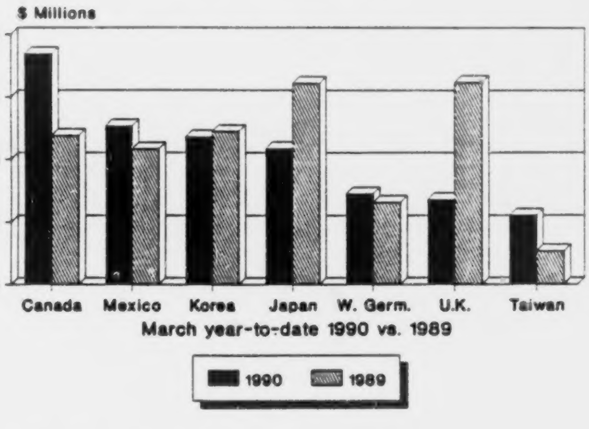
Exports

- The U.S. metal forming machine tool industry recorded its first monthly back-to-back trade surplus since 1982.

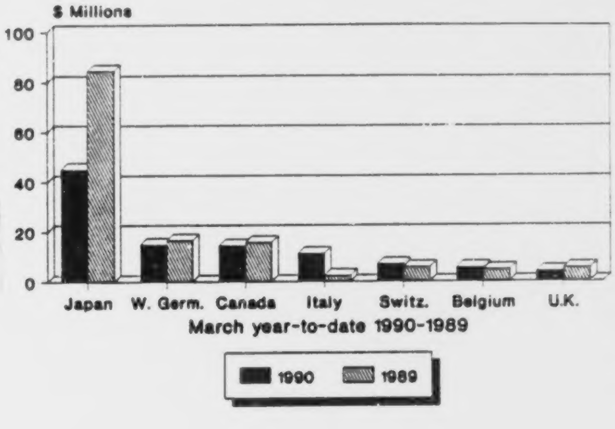
- India at $4.7 million, up 175% from the first quarter, is a fast growing metal forming export market. The bulk of the shipments to India are focused in the used or rebuilt machine category.

- U.S. exports in all major metal forming categories have increased thus far in 1990: punching and shearing exports are up by 26% to $19.8 million, bending and forming by 33% to $14.7 million, presses by 68% to $28.9 million, and forging machines by 23% to $10.7 million.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- First quarter 1990 U.S. metal forming imports are down 23% compared with 1989, to $112.7 million.

- During the first quarter of 1990, Japan accounted for about 40% of metal forming imports or $45.0 million, however this is 47% below the 1989 total. Imports from Italy have jumped by 381% to $11.2 million.

OTHER MANUFACTURING TECHNOLOGY

Exports

- U.S. exports of machine tool parts and accessories are up 21% compared with the first quarter of 1989, to $184.4 million. Canada ($44.6 million), the United Kingdom ($22.1 million), and West Germany ($20.4 million) are the top export markets.

- Exports of parts for plastics and rubber working machines amounted to $73.5 million during the first quarter, by far exceeding the level of exports for any complete machine category. Major export markets include Canada ($20.2 million) and Mexico ($6.9 million).

- U.S. exports of laser, light or photon beam for working any material are up slightly (1990 versus 1989) to $9.0 million. Japan is the largest export market at $3.7 million.

Imports

- The U.S. recorded a trade surplus in "other manufacturing technology" during March, as U.S. imports were down 4% from February and exports were up 17%.

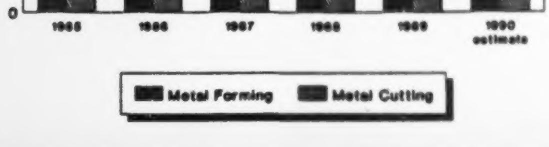
- U.S. imports of machine tool parts and accessories fell 10% compared with the first quarter of 1989, to $147.3 million. Japan is the largest U.S. supplier at $44.9 million, thus far in 1990.

- Parts of machines that work plastics or rubber is the second largest "other manufacturing technology" category (behind machine tool parts) at $80.9 million. West Germany is the largest U.S. foreign supplier for this category at $23.1 million.

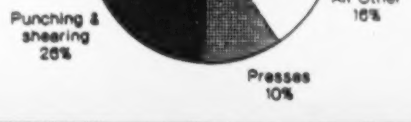
MONTHLY FOCUS

President Bush has submitted his recommendation to the U.S. Congress that Most-Favored-Nation (MFN) tariff treatment to China be renewed. Without MFN, machine tool tariffs into the United States from China would jump to between 30% and 45%, versus the current range of between 3% and 6%. Extending MFN with China would help ensure continued access by the United States to the vast potential of the Chinese market. Machine tool consumption in China has grown from an annual average of under $600 million during the early and mid-1980s, to an average of over $1 billion per year over the last three years. Thus far in 1990, China is the 8th largest U.S. export market.

U.S. MACHINE TOOL EXPORTS TO CHINA



U.S. Machine Tool Exports to China
Percent of total, by machine type
First Quarter 1990



U.S. EXPORTS
Metal Cutting Machine Tools - March 90

RELEASED: May 30, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	27	1962	17	1270
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	23	4437	9	1471
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	7	1620	3	715
100035	Horiz. mach. ctrs., ATC	11	3692	7	1680
100045	Mach. ctrs., n.e.c.	108	12382	31	4677
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	4	1772	3	1683
300010	Multi-station transfer machines, NC	6	9872	2	2546
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	7	1111	1	90
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	88	6392	33	2413
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	9	1745	1	145
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	9	3326	0	0
190030	Horiz. engine or toolroom lathes, non-NC	30	575	5	178
190050	Automatic bar and/or chucking mach., single spindle, non-NC	1	104	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	25	1098	4	271
190090	Horiz. lathes, n.e.c., non-NC	102	1389	57	464
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	11	501	11	501
915070	Vertical lathes, excl. VTL's, n.e.c., NC	8	1298	5	391
991050	Vertical turret lathes, non-NC	5	77	3	45
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	19	1199	7	896
8459100000	Way-type unit head machines	14	1957	3	383
210080	Other drilling machines, NC	37	3693	19	1769
290040	Drilling machines, multiple spindle, non-NC	9	409	0	0
290050	Drilling machines, radial, non-NC	12	85	6	35
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	25	464	17	274
290090	Drilling machines, n.e.c., non-NC	174	1058	52	456
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	83	0	0
310070	Boring-milling mach., n.e.c., NC	3	131	1	70
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	0	0	0	0
400040	Boring machines, vertical, NC	1	689	1	689
400050	Boring machines, vertical, non-NC	15	223	4	56
400070	Boring machines, n.e.c., NC	6	766	5	662
400080	Boring machines, n.e.c., non-NC	5	425	2	43
510080	Milling machines, knee type, NC	4	222	1	82
590030	Milling machines, knee type, non-NC	27	787	7	183
610080	Milling machines, excl. knee type, n.e.c., NC	20	6598	14	3874
690050	Milling machines, profile, dup., or die sinking, non-NC	19	338	1	6
690070	Milling machines, bed type, non-NC	0	0	0	0
690090	Milling machines, n.e.c., non-NC	82	4154	52	1128
700020	Threading or tapping machines, n.e.c., NC	9	523	2	47
700080	Threading or tapping machines, n.e.c., non-NC	90	1120	53	536
8460110080	Flat surface grinding mach., NC	13	526	8	348
190010	Flat surface grinding mach., recip.-table type, non-NC	21	399	12	149
190050	Flat surface grinding mach., n.e.c., non-NC	13	2007	3	199
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	27	9027	12	3287
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	11	1870	5	830
290030	Grinding mach., internal cylindrical, non-NC	14	1437	10	1341
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	122	5335	32	1414
310080	Sharpening machines (tool & cutter grinding), NC	8	218	2	51
390050	Sharpening machines (tool & cutter grinding), non-NC	227	6714	111	1301
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	216	5832	118	1336
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	4	693	2	236
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	282	4215	144	2100
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	101	2772	11	1494
200010	Shaping or slotting machines, NC	2	73	2	73
200090	Shaping or slotting machines, non-NC	16	483	2	115
300060	Broaching machines, NC	10	1139	2	312
300080	Broaching machines, non-NC	10	596	7	271
401050	Gear hobbers	8	838	5	661
401070	Gear shapers	16	2944	1	460
401090	Gear cutting machines, n.e.c.	23	6867	5	2019
405060	Gear grinding or finishing machines	30	2113	6	368
500050	Sawing or cutting-off machines, NC	49	1551	8	243
500090	Sawing or cutting-off machines, non-NC	414	6160	135	1482
9000000001	Metal cutting machine tools, n.e.c.	261	7418	125	3462
9800000001	Used or rebuilt machine tools	1108	12732	362	4991
9900000001	Machine tools valued at less than $2,500	8393	4850	3822	2083
	Cutting Total			5391	60352
	Y-T-D Cutting Total	12480	173221		
	NC Y-T-D Cutting Total*	552	77982		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - March 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	266
8457100015	0	0	0	0	4	481	0	0	4	760
100025	0	0	0	0	0	0	0	0	2	595
100035	0	0	0	0	5	1105	0	0	0	0
100045	0	0	0	0	8	851	0	0	7	531
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	1	1089
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	85	0	0	12	899	0	0	1	71
110050	0	0	0	0	0	0	0	0	1	145
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	2	128
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	7	152
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	58
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	33	0	0	0	0	0	0	9	1231
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	6	35
290070	0	0	0	0	0	0	0	0	13	141
290090	0	0	0	0	0	0	0	0	37	221
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	689
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	5	662
400080	0	0	0	0	0	0	0	0	1	18
510080	0	0	0	0	0	0	0	0	1	82
590030	1	37	0	0	0	0	0	0	2	41
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	17	4	69
700020	0	0	1	23	0	0	0	0	0	0
700080	1	59	0	0	2	189	0	0	11	47
8460110080	0	0	0	0	0	0	0	0	2	143
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	83
210080	0	0	0	0	0	0	0	0	3	814
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	4	222	6	83
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	33	284
400060	0	0	0	0	0	0	0	0	0	0
400080	1	16	0	0	0	0	0	0	4	28
900060	0	0	0	0	0	0	0	0	0	0
900080	7	79	0	0	0	0	0	0	29	305
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	17	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	1	48
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	1	248
300080	3	50	0	0	0	0	0	0	3	146
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	460
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	2	263
500050	0	0	0	0	0	0	0	0	8	243
500090	30	231	0	0	0	0	5	95	24	284
9000000001	0	0	0	0	0	0	0	0	34	213
9800000001	4	146	0	0	0	0	7	78	47	563
9900000001	456	97	11	7	27	65	10	6	303	346
Month Tot	506	349	12	31	58	3590	27	418	621	11582
Y-T-D Tot	622	4618	45	100	173	6951	214	6099	1501	42209
NC YTD Tot*	7	1622	1	23	49	6273	5	1110	151	24721

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - March 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	35
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	5	2145	1	202	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	102	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	73
190090	0	0	0	0	0	0	0	0	1	7
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	39
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	1	36
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	18	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	19
610080	11	1315	1	125	0	0	0	0	0	0
690050	0	0	0	0	1	6	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	13	0	0	0	0	0	0	1	316
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	3	14	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	3	31	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	359	0	0	0	0
290010	5	830	0	0	0	0	0	0	0	0
290030	2	73	0	0	5	1186	0	0	0	0
290050	0	0	0	0	2	88	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	2	62	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	27	1	123	0	0	1	10
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	18	0	0	18	170
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	1	580
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	2	33	0	0	15	234
9000000001	0	0	0	0	2	27	0	0	0	0
9800000001	20	170	4	143	4	170	0	0	3	9
9900000001	8	5	41	38	26	22	15	3	514	149
Month Tot	53	4652	50	535	55	2156	15	3	559	1677
Y-T-D Tot	60	6155	430	3414	129	7278	51	91	657	5173
NC YTD Tot*	19	4551	39	2485	9	2807	0	0	1	39

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - March 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	9	570	0	0	0	0	1	73	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	1	120	0	0	0	0	0	0
100035	0	0	1	270	0	0	0	0	0	0
100045	0	0	1	450	0	0	5	278	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	2	283	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	1	90	0	0	0	0	0	0
110030	5	397	1	51	0	0	1	88	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	2	98	0	0	0	0	0	0	0	0
190090	3	41	0	0	0	0	31	186	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	11	501	0	0
915070	1	25	0	0	0	0	4	367	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	3	43	0	0
8459100000	0	0	0	0	0	0	1	175	0	0
210080	0	0	1	54	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	1	3	0	0
290090	0	0	6	90	0	0	5	32	1	6
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	1	70	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	3	38	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	25	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	2	67	0	0	0	0
610080	0	0	2	2434	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	19	2	368	0	0	40	290	0	0
700020	0	0	1	23	0	0	0	0	0	0
700080	0	0	0	0	0	0	13	36	0	0
8460110080	0	0	0	0	0	0	6	206	0	0
190010	0	0	0	0	0	0	4	38	0	0
190050	0	0	1	58	0	0	0	0	0	0
210080	1	319	0	0	0	0	1	243	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	21	0	0
290050	1	84	0	0	0	0	7	243	6	208
310080	0	0	0	0	0	0	0	0	0	0
390050	19	125	1	388	4	22	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	4	47	47	494	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	15	158	12	122	0	0	14	169	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	700	2	37	0	0	1	6	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	75	0	0
401050	4	213	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	2	149	0	0	0	0	0	0
405060	0	0	0	0	0	0	1	49	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	9	73	4	60	0	0	9	50	11	63
9000000001	17	1710	6	107	0	0	7	52	0	0
9800000001	0	0	21	1544	0	0	179	972	2	6
9900000001	198	136	124	79	15	19	458	196	10	4
Month Tot	290	4713	240	[illegible]	21	108	809	4451	30	286
Y-T-D Tot	1070	8097	486	[illegible]	61	373	2499	16219	194	1000
NC YTD Tot*	35	3764	37	[illegible]	0	0	56	3380	2	66

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - March 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	130	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	1	7	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	18
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	68	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	1	58	0	0
210080	0	0	0	0	1	294	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	7	1	82	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	2	50	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	2	10	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	8	2	20	7	73	7	48	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	4	705
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	7	0	0
300060	1	64	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	575	0	0	0	0
405060	0	0	0	0	1	31	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	2	26	0	0
9000000001	1	6	0	0	2	14	21	250	0	0
9800000001	5	96	0	0	2	72	4	42	0	0
9900000001	412	139	33	51	21	13	33	23	4	7
Month Tot	423	518	36	153	37	1081	72	512	9	729
Y-T-D Tot	581	1829	70	1338	155	1960	244	2562	30	966
NC YTD Tot*	9	465	1	268	2	419	12	810	1	91

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - March 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	100	0	0	0	0	2	96	0	0
8457100015	1	230	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	1	306	0	0
100045	0	0	0	0	0	0	2	160	2	60
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	1400	0	0
300010	1	1457	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	11	721	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	3	51	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	99	0	0
190090	6	44	0	0	1	3	0	0	7	25
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	2	28	0	0	0	0	0	0	0	0
995090	0	0	0	0	1	755	0	0	1	41
8459100000	0	0	0	0	2	208	0	0	0	0
210080	0	0	0	0	0	0	0	0	7	412
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	3	130	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	4	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	18
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	2	36	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	6	145	0	0	0	0	0	0	17	47
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	5	80
190050	0	0	0	0	0	0	0	0	0	0
210080	2	589	0	0	0	0	2	424	1	245
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	2	61	0	0
290050	0	0	0	0	0	0	4	397	0	0
310080	0	0	0	0	0	0	0	0	2	51
390050	32	209	0	0	0	0	3	24	15	138
400060	0	0	0	0	0	0	0	0	0	0
400080	1	16	0	0	0	0	20	241	34	326
900060	0	0	0	0	0	0	0	0	2	236
900080	5	433	0	0	9	106	9	308	7	82
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	3	1	26
200010	0	0	0	0	0	0	1	25	0	0
200090	0	0	0	0	0	0	0	0	1	108
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	1	448	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	716	0	0
405060	2	25	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	10	104	0	0	0	0	4	98	10	131
9000000001	30	1035	0	0	2	21	0	0	3	26
9800000001	9	69	0	0	2	30	35	634	14	248
9900000001	112	96	0	0	256	88	278	64	457	431
Month Tot	239	5516	0	0	273	1212	369	5507	587	2731
Y-T-D Tot	841	17896	14	3208	292	1373	652	10672	1409	8150
NC YTD Tot*	68	13630	0	0	0	0	17	2277	31	3066

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 90

RELEASED: May 30, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	90	2538	32	939
8462100030	Headers and upsetters, including cold headers	14	5471	7	1624
100050	Forging or die stamping machines, and hammers, n.e.c.	59	5201	24	1754
210080	Bending, folding, straight. or flat. mach., incl presses, NC	74	6818	24	2314
290030	Press brakes, non-NC	49	1176	11	187
290040	Bending rolls, non-NC	17	475	2	76
290050	Bending, folding, straight., or flat., n.e.c., non-NC	250	6272	91	2796
310080	Shearing machines, NC	22	2184	7	849
390050	Shearing machines, non-NC	101	2392	25	440
410080	Punching or notching mach., incl. comb. punch & shear, NC	55	9769	13	1932
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	205	5455	110	2325
910060	Hydraulic presses, NC	14	1271	6	606
910090	Hydraulic presses, non-NC	170	8663	59	1718
990030	Presses, n.e.c., NC	26	1991	7	918
990040	Presses, mechanical, non-NC	40	4146	22	2063
990060	Presses, n.e.c., non-NC	412	12796	179	5085
8463100080	Draw benches for bars, tubes, profiles, wire or the like	48	1067	25	535
200080	Thread rolling machines	12	388	3	51
300080	Machines for working wire	136	6472	42	3045
900080	Metal forming machine tools, n.e.c.	555	14179	210	5947
9800000002	Used or rebuilt machine tools	840	15203	369	3874
9900000002	Machine tools valued at less than $2,500	2948	2353	1294	1031
	Forming Total			2562	40108
	Y-T-D Forming Total	6137	116282		
	NC Y-T-D Forming Total	191	22033		
	Cutting and Forming Totals:				
	Monthly Total			7953	100460
	Y-T-D Total	18617	289503		
	NC Y-T-D Total*	743	100015		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	184378	0	64946
2000000000	Parts for working rubber or plastics - heading 8477	0	73541	0	28162
2710003070	Quenching or cutting oils	0	1797	0	622
8428900010	Industrial robots for lifting, handling, loading or unload	64	1340	39	493
8431390090	Parts industrial robots, handling and loading - heading 8428	0	17463	0	5886
8456100000	Laser, light or photon beam for working any material	163	8960	48	2252
200000	Ultrasonic process for working any material	22	547	6	194
8477106010	Injection molding mach., for rubber or oth. thermosetting	38	3098	12	692
106070	Injection molding mach., for thermoplastics	83	9063	32	4558
200010	Extruders for rubber or other thermosetting materials	95	4073	45	1346
200050	Extruders for processing thermoplastics	218	8482	82	1892
300000	Blow molding machines	124	8081	48	3804
400000	Vacuum-molding and other thermoforming machines	4051	5178	72	2094
510010	Machines for molding or retreading pneumatic tires	202	5190	42	857
510090	Machines for molding or otherwise forming inner tubes	110	7836	39	183
590000	Machines for molding or otherwise forming n.e.c.	324	4626	108	1683
800000	Machines for working rubber or plastics n.e.c.	1079	26770	446	12432
8479899040	Industrial robots, n.e.c.	1930	19964	684	6560
908040	Industrial robot parts	0	11741	0	4024
8537100030	Numerical controls for controlling machine tools	580	8203	198	2887
9024100000	Machines and appliances for testing metals	0	17959	0	6460
9031100000	Machines for balancing mechanical parts	0	9507	0	5218
300000	Profile projectors	0	1988	0	554
9032810040	Industrial process control instr., hydraulic or pneumatic	166692	10157	64003	4205

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	7	40	0	0	1	13	0	0
8462100030	0	0	0	0	0	0	0	0	2	217
100050	0	0	0	0	0	0	1	51	3	417
210080	1	33	0	0	0	0	1	50	15	1883
290030	0	0	0	0	0	0	0	0	9	134
290040	0	0	0	0	1	29	0	0	0	0
290050	1	5	0	0	0	0	1	4	34	593
310080	0	0	0	0	0	0	0	0	1	26
390050	0	0	0	0	0	0	0	0	14	246
410080	1	34	0	0	0	0	3	339	4	334
490050	3	8	0	0	12	99	0	0	33	339
910060	0	0	0	0	0	0	0	0	1	431
910090	3	19	0	0	1	911	0	0	1	8
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	10	392	0	0	0	0	16	152	16	428
8463100080	2	11	0	0	0	0	1	20	0	0
200080	0	0	0	0	0	0	0	0	1	19
300080	0	0	0	0	0	0	1	31	4	46
900080	2	41	0	0	0	0	5	134	26	310
9800000002	0	0	0	0	1	104	2	29	82	1163
9900000002	12	10	0	0	36	40	145	59	258	249
Month Tot	35	552	7	40	51	1184	177	880	504	6841
Y-T-D Tot	103	1001	24	770	70	1274	207	1063	1036	18432
NC YTD Tot	4	161	0	0	0	0	5	402	44	5373
C&F Month	541	1401	19	71	109	4774	204	1298	1125	18423
C&F Y-T-D	725	5620	69	870	243	8225	421	7163	2537	60641
C&F NC YTD*	11	1783	1	23	49	6273	10	1512	195	30094

Other Manufacturing Technology

1000000000	0	929	0	157	0	684	0	649	0	14809
2000000000	0	328	0	57	0	616	0	1217	0	6546
2710003070	0	12	0	0	0	0	0	6	0	56
8428900010	0	0	0	0	0	0	0	0	1	10
8431390090	0	229	0	0	0	65	0	24	0	800
8456100000	0	0	0	0	0	0	0	0	3	283
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	2	175
106070	1	90	0	0	0	0	0	0	5	1258
200010	4	102	0	0	0	0	0	0	26	843
200050	1	45	0	0	0	0	0	0	10	235
300000	0	0	0	0	0	0	7	738	2	346
400000	0	0	0	0	0	0	0	0	19	888
510010	0	0	0	0	0	0	1	19	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	2	53	2	32	4	63	0	0	10	399
800000	5	58	1	9	2	31	0	0	105	4688
8479899040	1	5	0	0	4	25	0	0	504	3013
908040	0	0	0	0	0	17	0	0	0	3181
8537100030	1	12	1	12	0	0	1	18	13	146
9024100000	0	102	0	4	0	77	0	4	0	571
9031100000	0	0	0	0	0	0	0	253	0	2142
300000	0	0	0	0	0	0	0	0	0	83
9032810040	1004	118	523	30	2532	127	0	0	1368	163

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	35	4	27	4	44	4	17	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	1	47	0	0	0	0	0	0
290050	0	0	13	174	2	853	0	0	2	12
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	11	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	3	227	3	36	0	0	0	0	13	156
910060	0	0	0	0	0	0	0	0	0	0
910090	1	26	3	96	0	0	0	0	1	11
990030	0	0	0	0	0	0	0	0	1	229
990040	5	504	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	4	84	2	83	0	0	0	0
200080	0	0	0	0	1	25	0	0	0	0
300080	0	0	6	63	0	0	0	0	3	110
900080	1	595	0	0	5	149	0	0	2	51
9800000002	0	0	5	106	68	377	0	0	1	29
9900000002	0	0	55	20	16	9	0	0	9	8
Month Tot	12	1387	95	665	98	1540	4	17	32	607
Y-T-D Tot	38	5417	153	4952	207	4674	5	24	66	2378
NC YTD Tot	3	2629	18	2465	0	0	0	0	3	589
C&F Month	65	6039	145	1200	153	3696	19	20	591	2283
C&F Y-T-D	98	11572	583	8366	336	11953	56	115	723	7551
C&F NC YTD*	22	7180	57	4950	9	2807	0	0	4	628

Other Manufacturing Technology

1000000000	0	389	0	2060	0	375	0	35	0	1834
2000000000	0	2886	0	295	0	957	0	19	0	273
2710003070	0	0	0	0	0	0	0	78	0	0
8428900010	18	178	2	80	0	0	0	0	13	135
8431390090	0	192	0	278	0	20	0	10	0	0
8456100000	0	0	0	0	0	0	0	0	1	27
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	1	177	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	1	15	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	5	75	0	0	0	0	6	103
800000	0	0	0	0	14	201	2	18	5	550
8479899040	0	0	3	58	0	0	0	0	3	196
908040	0	0	0	69	0	0	0	0	0	24
8537100030	0	0	40	502	0	0	0	0	5	64
9024100000	0	660	0	204	0	56	0	329	0	13
9031100000	0	0	0	0	0	38	0	19	0	48
300000	0	0	0	296	0	0	0	0	0	96
9032810040	17	19	2495	178	299	29	0	0	2556	157

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 90

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	50	5	512	0	0	0	0	0	0
8462100030	5	1407	0	0	0	0	0	0	0	0
100050	5	298	0	0	0	0	5	306	0	0
210080	0	0	0	0	1	28	0	0	2	180
290030	1	4	0	0	0	0	1	48	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	6	120	1	122	0	0	7	110	5	121
310080	2	640	0	0	0	0	4	183	0	0
390050	0	0	0	0	0	0	8	158	0	0
410080	0	0	1	95	0	0	1	178	1	178
490050	6	490	1	24	1	9	9	199	0	0
910060	0	0	2	91	0	0	3	85	0	0
910090	1	16	0	0	0	0	35	404	1	8
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	45	0	0	0	0	0	0
990060	3	308	5	1075	0	0	26	263	1	29
8463100080	0	0	1	102	0	0	2	46	0	0
200080	0	0	0	0	0	0	1	7	0	0
300080	0	0	4	391	2	53	8	158	0	0
900080	6	188	6	157	1	70	19	710	1	5
9800000002	1	55	7	150	0	0	57	565	0	0
9900000002	109	49	0	0	0	0	292	283	0	0
Month Tot	146	3626	34	2763	5	160	478	3703	11	521
Y-T-D Tot	316	10880	137	11812	21	280	1666	12686	75	1965
NC YTD Tot	9	1902	9	989	2	65	25	2110	10	931
C&F Month	436	8340	274	10106	26	267	1287	8154	41	807
C&F Y-T-D	1386	18977	623	27303	82	653	4165	28905	269	2964
C&F NC YTD*	44	5667	46	7105	2	65	81	5490	12	997

Other Manufacturing Technology

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	6048	0	1565	0	287	0	4629	0	486
2000000000	0	1725	0	139	0	203	0	3482	0	111
2710003070	0	0	0	0	0	0	0	49	0	0
8428900010	4	37	0	0	0	0	0	0	0	0
8431390090	0	79	0	103	0	0	0	1322	0	202
8456100000	10	332	1	13	1	86	0	0	1	135
200000	0	0	0	0	0	0	1	33	0	0
8477106010	0	0	3	211	0	0	7	306	0	0
106070	0	0	0	0	0	0	14	2452	0	0
200010	0	0	0	0	0	0	12	326	0	0
200050	13	278	17	429	1	23	12	197	0	0
300000	0	0	0	0	0	0	9	625	0	0
400000	4	95	28	486	0	0	10	595	0	0
510010	3	75	0	0	0	0	1	14	0	0
510090	0	0	0	0	0	0	31	111	0	0
590000	4	141	10	161	0	0	37	215	0	0
800000	13	1895	23	356	1	15	221	2567	1	19
8479899040	3	49	0	0	7	112	7	104	0	0
908040	0	97	0	27	0	0	0	0	0	0
8537100030	1	18	2	21	0	0	0	0	0	0
9024100000	0	1428	0	274	0	10	0	162	0	21
9031100000	0	49	0	1920	0	0	0	263	0	8
300000	0	0	0	0	0	0	0	0	0	0
9032810040	4528	315	6282	132	52	3	165	84	12212	654

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	2	105	0	0	0	0
210080	0	0	1	31	1	30	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	7	4	89	1	40
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	58	1	70	0	0	1	162	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	2	58	0	0
990030	0	0	0	0	0	0	5	596	0	0
990040	1	30	0	0	1	120	12	550	0	0
990060	1	7	0	0	1	34	49	964	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	1	27	0	0	0	0
900080	0	0	0	0	0	0	3	1609	0	0
9800000002	4	3	0	0	0	0	13	87	1	17
9900000002	28	24	0	0	35	30	0	0	0	0
Month Tot	35	123	2	101	42	352	89	4115	2	58
Y-T-D Tot	100	1071	14	808	103	947	119	5521	26	370
NC YTD Tot	0	0	1	31	1	30	15	1244	0	0
C&F Month	458	641	38	254	79	1434	161	4627	11	787
C&F Y-T-D	681	2899	84	2146	258	2907	363	8083	56	1336
C&F NC YTD*	9	465	2	299	3	449	27	2054	1	91

Other Manufacturing Technology

1000000000	0	926	0	660	0	495	0	636	0	429
2000000000	0	600	0	179	0	304	0	685	0	198
2710003070	0	13	0	0	0	0	0	124	0	4
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	67	0	0	0	3	0	3	0	0
8456100000	3	78	7	155	0	0	2	699	0	0
200000	0	0	2	53	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	6	424	16	588	0	0
400000	0	0	0	0	9	14	2	16	0	0
510010	2	32	4	88	0	0	0	0	0	0
510090	0	0	0	0	1	24	0	0	0	0
590000	1	35	2	21	4	57	1	11	0	0
800000	6	66	1	400	24	40	0	0	1	33
8479899040	8	50	3	130	27	272	2	159	0	0
908040	0	21	0	5	0	88	0	5	0	0
8537100030	0	0	2	16	9	135	0	0	2	25
9024100000	0	59	0	80	0	49	0	44	0	0
9031100000	0	10	0	14	0	0	0	20	0	0
300000	0	4	0	0	0	7	0	0	0	0
9032810040	888	327	1353	68	50	6	943	336	8427	30

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	11	0	0	0	0	0	0	3	190
8462100030	0	0	0	0	0	0	0	0	0	0
100050	5	378	0	0	0	0	0	0	3	198
210080	0	0	0	0	0	0	0	0	2	80
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	11	347	2	199
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	2	25	0	0
410080	2	776	0	0	0	0	0	0	0	0
490050	3	37	0	0	0	0	1	17	19	395
910060	0	0	0	0	0	0	0	0	0	0
910090	6	62	0	0	0	0	0	0	4	98
990030	1	92	0	0	0	0	0	0	0	0
990040	1	599	0	0	0	0	1	215	0	0
990060	45	934	0	0	0	0	2	452	4	48
8463100080	2	85	0	0	0	0	11	103	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	13	0	0	0	0	8	116	4	2036
900080	99	1269	0	0	1	15	17	389	16	256
9800000002	1	15	0	0	0	0	5	371	121	803
9900000002	96	80	0	0	22	18	73	68	108	83
Month Tot	263	4352	0	0	23	33	131	2103	286	4385
Y-T-D Tot	439	6794	0	0	45	276	394	7263	773	15621
NC YTD Tot	9	1529	0	0	1	28	3	382	29	1172
C&F Month	502	9868	0	0	296	1245	500	7610	873	7116
C&F Y-T-D	1280	24690	14	3208	337	1650	1046	17935	2182	23771
C&F NC YTD*	77	15159	0	0	1	28	20	2660	60	4238

Other Manufacturing Technology

1000000000	0	9463	0	6	0	530	0	6513	0	10353
2000000000	0	1010	0	0	0	337	0	2342	0	3654
2710003070	0	5	0	0	0	4	0	35	0	235
8428900010	0	0	0	0	0	0	1	54	0	0
8431390090	0	106	0	0	0	31	0	48	0	2305
8456100000	9	213	0	0	0	0	2	31	8	202
200000	0	0	0	0	0	0	0	0	3	108
8477106010	0	0	0	0	0	0	0	0	0	0
106070	5	328	0	0	0	0	7	430	0	0
200010	0	0	0	0	0	0	0	0	3	75
200050	1	10	0	0	0	0	19	478	8	198
300000	0	0	0	0	0	0	4	72	3	835
400000	0	0	0	0	0	0	0	0	0	0
510010	11	280	0	0	8	182	0	0	11	151
510090	0	0	0	0	0	0	0	0	7	48
590000	9	128	0	0	0	0	5	94	6	96
800000	2	24	0	0	0	0	3	257	16	1205
8479899040	11	202	0	0	0	0	71	1791	30	392
908040	0	253	0	0	0	15	0	89	0	135
8537100030	65	976	0	0	0	0	29	544	27	399
9024100000	0	1119	0	3	0	120	0	629	0	443
9031100000	0	65	0	0	0	199	0	32	0	139
300000	0	3	0	0	0	0	0	54	0	10
9032810040	8184	759	0	0	175	21	4980	274	4970	377

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
March 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	1	49	0	0	1	49
East Germany	0	0	0	0	0	0
Finland	0	0	11	232	11	232
Greece	88	58	0	0	88	58
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	15	166	3	22	18	188
Luxembourg	0	0	0	0	0	0
Norway	9	217	2	30	11	247
Poland	1	4	1	18	2	22
Portugal	2	3	0	0	2	3
Romania	0	0	0	0	0	0
Sweden	15	692	22	18	37	710
Turkey	13	8	2	82	15	90
Yugoslavia	1	245	1	170	2	415
Oth Europe	0	0	0	0	0	0
TOTAL	1535	19818	676	10497	2211	30314
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	1	4	1	4
Belize	0	0	4	3	4	3
Bermuda	18	12	0	0	18	12
Costa Rica	2	11	4	3	6	14
Dominican Rep	1	21	28	60	29	81
El Salvador	0	0	0	0	0	0
Guatemala	1	6	0	0	1	6
Haiti	0	0	0	0	0	0
Honduras	17	10	2	4	19	14
Jamaica	16	72	4	4	20	76
Panama	0	0	0	0	0	0
Trinidad	0	0	2	52	2	52
Oth N & C Am.	1	22	4	52	5	74
TOTAL	1486	16187	1031	10727	2517	26914
SOUTH AMERICA						
Argentina	2	19	0	0	2	19
Bolivia	0	0	0	0	0	0
Chile	42	73	2	31	44	104
Colombia	9	102	28	221	37	323
Ecuador	19	45	0	0	19	45
Paraguay	0	0	0	0	0	0
Peru	1	38	2	72	3	110
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	373	1907	232	1237	605	3144
OCEANIA						
New Zealand	5	130	2	198	7	328
Oth Oceania	0	0	0	0	0	0
TOTAL	511	979	37	750	548	1729

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
March 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	204	216	29	248	233	464
Iran	0	0	0	0	0	0
Iraq	0	0	1	1944	1	1944
Israel	5	41	1	11	6	52
Jordan	0	0	1	5	1	5
Kuwait	2	18	0	0	2	18
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	7	18	0	0	7	18
Philippines	34	172	120	683	154	855
Qatar	0	0	0	0	0	0
Saudi Arabia	5	47	7	83	12	130
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	0	0	0	0	0	0
Vietnam	0	0	0	0	0	0
Oth Asia	2	9	0	0	2	9
TOTAL	1437	21255	584	16763	2021	38018
AFRICA						
Algeria	0	0	2	134	2	134
Botswana	0	0	0	0	0	0
Egypt	16	27	0	0	16	27
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	21	31	0	0	21	31
South Africa	12	149	0	0	12	149
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	49	208	2	134	51	342

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: May 30, 1990

U.S. IMPORTS - Metal Cutting Machine Tools - March 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	273	16002	126	7390
301050	Electro-discharge machines, n.e.c., NC	49	2203	20	1114
301070	Electro-discharge machines, n.e.c., non-NC	94	2116	17	351
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	624	51303	181	13522
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	37	6157	14	2334
100035	Horiz. mach. ctrs., ATC	178	40807	57	13294
100045	Mach. ctrs., n.e.c.	61	6101	18	1828
200010	Unit construction mach. (single station transfer), NC	13	1295	6	666
200090	Unit construction mach. (single station transfer), non-NC	0	0	0	0
300010	Multi-station transfer machines, NC	8	3535	3	1622
300090	Multi-station transfer machines, non-NC	19	5696	6	1410
8458110010	Horiz. lathes, multiple spindle, NC	82	12739	11	1685
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	653	45384	230	14449
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	154	20396	44	6184
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	18	4542	5	1976
190030	Horiz. engine or toolroom lathes, non-NC	1048	9948	436	3660
190050	Automatic bar and/or chucking mach., single spindle, non-NC	107	5248	11	495
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	42	3433	23	1731
190090	Horiz. lathes, n.e.c., non-NC	407	4078	250	2283
911060	Vertical turret lathes, multiple spindle, NC	13	2154	7	740
911080	Vertical turret lathes, n.e.c., NC	7	1479	2	637
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	22	2786	1	326
991050	Vertical turret lathes, non-NC	41	771	4	171
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	250	4371	88	1731
8459100000	Way-type unit head machines	0	0	0	0
210080	Other drilling machines, NC	101	6977	36	2795
290040	Drilling machines, multiple spindle, non-NC	40	1125	8	283
290050	Drilling machines, radial, non-NC	113	851	35	348
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	18	184	7	111
290090	Drilling machines, n.e.c., non-NC	112	2938	45	1230
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	2	297	2	297
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	24	2415	5	158
310070	Boring-milling mach., n.e.c., NC	12	636	8	311
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	8	526	2	51
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	28	895	12	53
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	13	477	6	91
400070	Boring machines, n.e.c., NC	7	396	0	0
400080	Boring machines, n.e.c., non-NC	44	1675	6	1180
510080	Milling machines, knee type, NC	116	2482	32	641
590030	Milling machines, knee type, non-NC	927	6558	367	2601
610080	Milling machines, excl. knee type, n.e.c., NC	75	3836	20	604
690050	Milling machines, profile, dup., or die sinking, non-NC	6	28	0	0
690070	Milling machines, bed type, non-NC	21	771	8	155
690090	Milling machines, n.e.c., non-NC	164	5584	63	450
700020	Threading or tapping machines, n.e.c., NC	47	2223	21	1057
700080	Threading or tapping machines, n.e.c., non-NC	53	1130	27	653
8460110080	Flat surface grinding mach., NC	25	1754	9	872
190010	Flat surface grinding mach., recip.-table type, non-NC	261	3383	87	904
190050	Flat surface grinding mach., n.e.c., non-NC	512	4791	168	1893
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	113	20553	43	6523
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	124	4208	44	1922
290030	Grinding mach., internal cylindrical, non-NC	28	3035	9	397
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	250	9996	62	1928
310080	Sharpening machines (tool & cutter grinding), NC	65	1278	10	645
390050	Sharpening machines (tool & cutter grinding), non-NC	237	2757	59	636
400060	Honing or lapping machines, NC	10	974	2	74
400080	Honing or lapping machines, non-NC	64	1658	31	1030
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	15	693	4	232
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	372	10901	195	2320
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	1	5	0	0
200010	Shaping or slotting machines, NC	65	2295	1	58
200090	Shaping or slotting machines, non-NC	72	1116	6	97
300060	Broaching machines, NC	2	5118	0	0
300080	Broaching machines, non-NC	17	917	1	4
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	15	2136	4	275
401040	Gear shapers	8	2243	4	1013
401060	Gear cutting machines, n.e.c.	63	416	19	48
405050	Gear grinding or finishing for bevel gears	41	586	41	586
405070	Gear grinding or finishing machines, n.e.c.	23	7161	6	1761
500050	Sawing or cutting-off machines, NC	46	1604	7	156
500090	Sawing or cutting-off machines, non-NC	482	7745	119	3447
9000000001	Metal cutting machine tools, n.e.c.	113	2864	36	1000
9800000001	Used or rebuilt machine tools	464	8036	206	2178
9900000001	Machine tools valued at less than $2,500	207035	22957	63357	7159
	Cutting Total			66800	129827
	Y-T-D Cutting Total	216654	425730		
	NC Y-T-D Cutting Total	2922	270588		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - March 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	1	65	0	0
100025	0	0	0	0	0	0	5	513	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	1	980
300090	0	0	0	0	2	604	0	0	1	426
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	3	31	0	0
110050	0	0	0	0	0	0	1	63	0	0
110090	0	0	0	0	0	0	0	0	2	1413
190030	0	0	129	822	10	113	1	64	0	0
190050	0	0	5	22	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	182	980	0	0	2	6	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	1	488	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	1	164	0	0
995090	0	0	6	23	10	33	11	615	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	2	133	1	146	0	0
290040	0	0	0	0	0	0	0	0	3	20
290050	0	0	20	194	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	32	0	0	5	1005
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	6	91
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	10	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	5	0	0	2	24
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	4	0	0	0	0
8460110080	1	104	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	33
190050	0	0	0	0	2	7	0	0	1	17
210080	0	0	0	0	0	0	1	39	0	0
290010	0	0	0	0	19	127	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	11	49	0	0	1	47
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	4	13	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	25
900060	0	0	0	0	0	0	0	0	1	11
900080	1	3	0	0	12	61	10	31	29	288
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	3	8	0	0	2	6	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	1	3	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	1	7
500090	0	0	0	0	39	484	0	0	14	157
9000000001	0	0	0	0	2	31	16	269	0	0
9800000001	2	240	0	0	11	109	1	73	1	2
9900000001	1	1	7	16	49	55	206	165	5139	826
Month Tot	8	356	349	2056	181	1879	261	2730	5209	5371
Y-T-D Tot	15	540	583	4055	466	5980	503	6035	11005	16596
NC YTD Tot	1	104	1	435	11	1417	34	3128	28	3380

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - March 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	78	5607	0	0	0	0	0	0	0	0
301050	8	705	0	0	0	0	1	18	1	2
301070	1	80	0	0	0	0	0	0	0	0
8457100015	94	8625	2	127	4	279	0	0	0	0
100025	9	1821	0	0	0	0	0	0	0	0
100035	46	11218	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	6	666	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	2	642	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	10	1556	0	0	0	0	0	0	0	0
110030	170	12717	2	126	0	0	0	0	0	0
110050	42	5667	0	0	0	0	0	0	0	0
110090	2	459	0	0	0	0	0	0	0	0
190030	6	105	14	133	21	267	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	4	884	0	0	0	0	0	0	0	0
911060	3	547	0	0	0	0	0	0	0	0
911080	1	149	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	326	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	9	626	0	0	7	72	1	3
8459100000	0	0	0	0	0	0	0	0	0	0
210080	31	2339	0	0	0	0	0	0	1	7
290040	0	0	0	0	0	0	0	0	0	0
290050	1	4	0	0	0	0	2	64	0	0
290070	3	80	0	0	0	0	0	0	0	0
290090	4	34	0	0	0	0	17	54	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	6	201	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	1	32	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	3	1126	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	14	195	0	0
590030	9	165	0	0	0	0	146	1274	0	0
610080	1	83	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	5	77	0	0	0	0	0	0	0	0
690090	5	17	0	0	0	0	0	0	0	0
700020	21	1057	0	0	0	0	0	0	0	0
700080	12	394	0	0	0	0	0	0	0	0
8460110080	3	239	0	0	0	0	0	0	0	0
190010	13	262	0	0	33	455	0	0	0	0
190050	3	472	0	0	0	0	0	0	0	0
210080	32	5333	0	0	0	0	0	0	0	0
290010	3	196	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	8	1313	0	0	0	0	0	0	0	0
310080	1	159	0	0	0	0	0	0	0	0
390050	9	212	0	0	0	0	0	0	0	0
400060	2	74	0	0	0	0	0	0	0	0
400080	5	477	0	0	0	0	0	0	8	257
900060	2	140	0	0	0	0	0	0	0	0
900080	26	285	2	27	0	0	0	0	1	7
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	83	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	4	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	1	153	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	40	120	0	0	0	0	0	0	0	0
405070	1	195	0	0	0	0	0	0	0	0
500050	5	133	0	0	0	0	0	0	0	0
500090	23	737	0	0	0	0	8	62	1	8
9000000001	1	10	0	0	0	0	0	0	4	157
9800000001	78	511	0	0	0	0	8	270	0	0
9900000001	3157	648	856	187	8	1	0	0	184	133
Month Tot	3993	68437	891	1891	66	1002	204	2041	201	574
Y-T-D Tot	14267	221518	1125	5782	279	5695	557	5832	365	3405
NC YTD Tot	1846	190488	40	3060	60	3292	19	531	6	1445

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - March 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	45	1700	2	15	0	0	0	0	1	68
301050	7	115	1	39	1	22	1	214	0	0
301070	1	108	10	86	0	0	0	0	5	77
8457100015	0	0	8	705	52	2717	3	271	17	733
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	4	498	0	0	7	1578	0	0
100045	2	250	0	0	4	181	12	1397	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	3	381	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	1	129	0	0	0	0
110030	0	0	18	997	2	87	0	0	35	491
110050	0	0	0	0	0	0	0	0	1	454
110090	0	0	0	0	1	104	0	0	0	0
190030	0	0	79	567	31	338	0	0	145	1251
190050	4	462	2	11	0	0	0	0	0	0
190070	2	520	19	123	0	0	2	1088	0	0
190090	2	46	0	0	17	182	0	0	43	185
911060	4	193	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	3	7	0	0	0	0	0	0	0	0
995090	0	0	0	0	20	244	0	0	24	115
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	170	0	0	0	0
290040	5	264	0	0	0	0	0	0	0	0
290050	0	0	3	18	0	0	0	0	9	68
290070	0	0	4	31	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	36	16	69
310010	0	0	2	297	0	0	0	0	0	0
310040	0	0	1	1	0	0	0	0	4	157
310070	0	0	0	0	0	0	0	0	2	110
390040	0	0	1	19	0	0	0	0	0	0
390050	0	0	12	53	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	1	11	0	0	1	34	0	0	0	0
510080	0	0	5	41	12	391	0	0	1	14
590030	0	0	184	965	0	0	1	77	27	121
610080	0	0	7	135	2	326	0	0	10	60
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	3	78	0	0	0	0	0	0
690090	0	0	36	164	0	0	6	202	13	37
700020	0	0	0	0	0	0	0	0	0	0
700080	1	6	0	0	2	49	11	200	0	0
8460110080	0	0	3	72	0	0	2	457	0	0
190010	0	0	7	32	0	0	33	122	0	0
190050	2	13	131	993	16	233	12	147	1	10
210080	3	371	0	0	0	0	6	641	1	140
290010	9	1132	5	101	1	19	2	286	5	60
290030	2	204	0	0	2	39	3	130	2	24
290050	1	49	24	85	6	131	8	227	3	26
310080	3	17	0	0	2	432	2	33	2	5
390050	12	157	0	0	28	184	6	72	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	8	92	5	149	4	29
900060	0	0	0	0	0	0	1	82	0	0
900080	13	334	22	159	12	46	32	802	35	278
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	1	58	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	2	15	1	107	0	0
401040	0	0	0	0	0	0	4	1013	0	0
401060	0	0	0	0	14	35	4	10	0	0
405050	1	467	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	3	1487	2	80
500050	0	0	0	0	0	0	1	15	0	0
500090	1	18	10	116	0	0	9	1775	14	90
9000000001	1	157	0	0	0	0	7	351	5	25
9800000001	52	129	7	154	31	585	4	47	11	59
9900000001	53	57	47753	4057	265	141	523	236	5156	637
Month Tot	233	7168	48363	10612	534	6927	713	13308	5594	5475
Y-T-D Tot	497	17388	160164	31902	1686	26661	2263	59029	22879	15313
NC YTD Tot	91	5522	236	7504	213	16945	207	28704	129	4634

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 90

RELEASED: May 30, 1990

Metal Forming Machine Tools

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	109	5811	24	3857
8462100030	Headers and upsetters, including cold headers	36	3995	6	724
100050	Forging or die stamping machines, and hammers, n.e.c.	271	15926	98	4836
210080	Bending, folding, straight. or flat. mach., incl presses, NC	146	6793	54	2197
290030	Press brakes, non-NC	61	1598	21	525
290040	Bending rolls, non-NC	29	913	6	81
290050	Bending, folding, straight., or flat., n.e.c., non-NC	313	10429	110	4564
310080	Shearing machines, NC	15	1141	4	660
390050	Shearing machines, non-NC	137	4161	48	1280
410080	Punching or notching mach., incl. comb. punch & shear, NC	95	11238	33	4970
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	188	3070	118	1609
910060	Hydraulic presses, NC	4	824	3	681
910090	Hydraulic presses, non-NC	545	3363	26	1116
990030	Presses, n.e.c., NC	36	3269	2	149
990035	Mechanical transfer presses, non-NC	0	0	0	0
990045	Mechanical presses, n.e.c., non-NC	31	833	15	102
990060	Presses, n.e.c., non-NC	191	6553	54	2319
8463100080	Draw benches for bars, tubes, profiles, wire or the like	10	459	3	12
200080	Thread rolling machines	31	1454	4	79
300080	Machines for working wire	467	20091	137	5621
900080	Metal forming machine tools, n.e.c.	136	4786	37	1285
9800000002	Used or rebuilt machine tools	194	4556	59	1404
9900000002	Machine tools valued at less than $2,500	3297	1476	1192	429
	Forming Total			2054	38497
	Y-T-D Forming Total	6342	112739		
	NC Y-T-D Forming Total	296	23265		
	Cutting and Forming Totals:				
	Monthly Total			68854	168324
	Y-T-D Total	222996	538469		
	NC Y-T-D Total	3218	293853		

Other Manufacturing Technology

		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	147266	0	46541
2000000000	Parts for working rubber or plastics - heading 8477	0	80862	0	24535
2710003070	Quenching or cutting oils	0	54	0	16
8428900010	Industrial robots for lifting, handling, loading or unload	937	12351	104	5555
8431390080	Parts industrial robots, handling and loading - heading 8428	0	23615	0	8367
8456101010	Laser, light or photon beam for working metal, NC	48	9067	18	2838
101020	Laser, light or photon beam for working metal, non-NC	30	432	5	223
105000	Laser, light or photon beam for other materials	40	331	20	176
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	2	22	0	0
205000	Ultrasonic processes for working other materials	4	184	3	146
8477103000	Injection molding mach., for manufacturing shoes	19	937	1	28
106010	Injection molding mach., for rubber or oth. thermosetting	216	18229	75	6701
106050	Injection molding mach., for thermoplastics	688	59750	220	16926
200010	Extruders for rubber or other thermosetting materials	48	3569	12	273
200050	Extruders for processing thermoplastics	240	16018	90	4011
300000	Blow molding machines	130	9534	22	1323
400000	Vacuum-molding and other thermoforming machines	25	1227	5	79
510010	Machines for molding or retreading pneumatic tires	188	13759	107	5226
510090	Machines for molding or otherwise forming inner tubes	71	4487	39	2981
590000	Machines for molding or otherwise forming n.e.c.	203	24861	63	3117
800000	Machines for working rubber or plastics n.e.c.	1461	33851	229	8348
8479899040	Industrial robots, n.e.c.	3886	20389	350	8662
908040	Industrial robot parts	0	8226	0	2879
8537100030	Numerical controls for controlling machine tools	4585	10728	1713	3677
9024100000	Machines and appliances for testing metals	0	2666	0	549
9031100000	Machines for balancing mechanical parts	0	1646	0	391
300000	Profile projectors	0	1426	0	500
9032810020	Industrial process control instr., hydraulic	34377	366	16383	188
810060	Industrial process control instr., pneumatic	43788	1036	8961	318

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	10	377	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	3	441
100050	0	0	0	0	1	156	42	38	6	18
210080	0	0	0	0	3	27	0	0	2	14
290030	2	81	0	0	15	412	0	0	0	0
290040	0	0	0	0	5	34	0	0	0	0
290050	0	0	0	0	53	1496	0	0	2	29
310080	1	36	0	0	0	0	0	0	0	0
390050	17	403	0	0	5	173	1	15	2	14
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	5	128	0	0	4	62
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	6	186	2	2	2	2
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	26	1294	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	2	8
200080	0	0	0	0	0	0	0	0	0	0
300080	6	212	0	0	4	202	0	0	23	1672
900080	0	0	0	0	4	164	0	0	0	0
9800000002	10	228	0	0	7	25	0	0	0	0
9900000002	0	0	0	0	2	2	13	24	10	11
Month Tot	36	960	0	0	146	4676	58	78	56	2272
Y-T-D Tot	131	5570	0	0	484	14457	127	368	337	11208
NC YTD Tot	11	1735	0	0	6	244	2	20	34	497
C&F Month	44	1316	349	2056	327	6555	319	2809	5265	7643
C&F Y-T-D	146	6110	583	4055	950	20438	630	6403	11342	27804
C&F NC YTD	12	1839	1	435	17	1661	36	3148	62	3878

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	471	0	8	0	4901	0	897	0	1681
2000000000	0	198	0	0	0	5921	0	893	0	785
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	0	0	17	1772	1	49	2	1361
8431390080	0	0	0	34	0	1530	0	57	0	35
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	4	152	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	1	8	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	3	580	5	531	1	125
106050	0	0	0	0	38	3894	0	0	16	2131
200010	0	0	0	0	7	75	0	0	0	0
200050	0	0	0	0	9	108	1	70	9	867
300000	0	0	0	0	0	0	1	52	0	0
400000	0	0	0	0	2	61	0	0	0	0
510010	0	0	0	0	16	1370	23	64	6	336
510090	0	0	0	0	0	0	2	16	12	9
590000	0	0	0	0	3	96	1	134	15	115
800000	12	52	0	0	21	683	7	199	2	132
8479899040	8	99	0	0	7	99	0	0	1	13
908040	0	72	0	0	0	38	0	11	0	62
8537100030	0	0	0	0	0	0	0	0	48	35
9024100000	0	0	0	0	0	2	0	0	0	0
9031100000	0	0	0	0	0	8	0	0	0	22
300000	0	0	0	0	0	7	0	0	0	7
9032810020	0	0	0	0	6	40	0	0	0	0
810060	0	0	0	0	0	0	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	10	2903	0	0	0	0	0	0	0	0
8462100030	3	283	0	0	0	0	0	0	0	0
100050	21	1922	1	32	5	9	0	0	2	2
210080	34	1506	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	10	638	0	0	0	0	0	0	13	224
310080	3	624	0	0	0	0	0	0	0	0
390050	8	320	1	30	0	0	0	0	4	54
410080	19	2707	0	0	0	0	0	0	0	0
490050	2	50	0	0	0	0	33	339	2	25
910060	0	0	0	0	0	0	0	0	1	243
910090	9	853	0	0	0	0	1	14	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	2	9	0	0	0	0	0	0	0	0
990060	5	541	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	2	45	0	0	0	0	1	15	0	0
300080	77	2474	0	0	0	0	0	0	0	0
900080	20	243	0	0	0	0	3	14	1	201
9800000002	9	858	0	0	0	0	0	0	1	8
9900000002	174	139	0	0	0	0	34	22	1	2
Month Tot	408	16116	2	63	5	9	72	404	25	758
Y-T-D Tot	1084	45039	5	64	5	9	130	901	295	2466
NC YTD Tot	152	12664	0	0	0	0	0	0	3	439
C&F Month	4401	84554	893	1954	71	1011	276	2445	226	1332
C&F Y-T-D	15351	266557	1130	5846	284	5704	687	6732	660	5871
C&F NC YTD	1998	203153	40	3060	60	3292	19	531	9	1884

Other Manufacturing Technology

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	15008	0	112	0	380	0	206	0	1223
2000000000	0	2849	0	0	0	51	0	22	0	174
2710003070	0	16	0	0	0	0	0	0	0	0
8428900010	38	549	0	0	0	0	0	0	15	670
8431390080	0	684	0	0	0	0	0	3	0	95
8456101010	16	2710	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	2	138	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	49	4250	0	0	0	0	0	0	0	0
106050	45	5586	4	78	0	0	0	0	0	0
200010	0	0	1	8	0	0	0	0	0	0
200050	1	6	0	0	0	0	0	0	15	889
300000	5	839	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	56	2528	0	0	0	0	0	0	0	0
510090	6	334	3	19	0	0	0	0	0	0
590000	27	2201	0	0	0	0	0	0	0	0
800000	47	3501	0	0	1	380	0	0	1	3
8479899040	237	6150	0	0	0	0	4	166	16	780
908040	0	1173	0	0	0	0	0	0	0	85
8537100030	1651	3582	0	0	0	0	0	0	0	0
9024100000	0	222	0	0	0	0	0	0	0	0
9031100000	0	33	0	0	0	0	0	0	0	0
300000	0	192	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	20	5	0	0	0	0	0	0	1033	206

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	355	0	0	1	81	1	141	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	4	2413	0	0	10	49	3	37	3	160
210080	0	0	0	0	3	33	10	558	2	59
290030	0	0	4	32	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	47
290050	2	150	8	26	6	503	4	1276	12	222
310080	0	0	0	0	0	0	0	0	0	0
390050	1	181	1	4	4	31	0	0	4	55
410080	1	272	0	0	1	83	8	957	4	950
490050	0	0	0	0	57	720	8	71	7	214
910060	0	0	0	0	0	0	2	438	0	0
910090	0	0	3	36	0	0	3	24	0	0
990030	2	149	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	10	45	0	0	1	7	2	41	0	0
990060	0	0	9	205	8	24	2	162	4	94
8463100080	0	0	0	0	0	0	1	4	0	0
200080	0	0	0	0	0	0	0	0	1	19
300080	1	4	7	93	2	26	16	934	1	4
900080	3	470	1	7	0	0	4	182	1	5
9800000002	0	0	4	3	23	147	4	116	1	18
9900000002	11	26	614	140	2	1	145	15	186	44
Month Tot	37	4066	651	545	118	1704	213	4956	227	1891
Y-T-D Tot	234	6950	1716	2453	285	3948	645	14942	864	4365
NC YTD Tot	8	1044	3	82	4	115	58	4928	15	1496
C&F Month	270	11234	49014	11158	652	8631	926	18264	5821	7365
C&F Y-T-D	731	24338	161880	34355	1971	30608	2908	73971	23743	19678
C&F NC YTD	99	6566	239	7585	217	17061	265	33631	144	6130

Other Manufacturing Technology

1000000000	0	3361	0	1249	0	4074	0	10286	0	2685
2000000000	0	535	0	473	0	1278	0	8636	0	2720
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	1	88	0	0	26	612	2	309	2	147
8431390080	0	1548	0	97	0	617	0	1975	0	1693
8456101010	0	0	0	0	1	64	0	0	1	63
101020	0	0	0	0	0	0	5	223	0	0
105000	0	0	0	0	15	4	1	20	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	1	28	0	0	0	0	0	0
106010	4	678	11	357	0	0	1	163	1	16
106050	1	2	14	770	1	13	62	1789	39	2662
200010	2	145	0	0	0	0	1	5	1	40
200050	2	40	2	21	2	5	49	2005	0	0
300000	0	0	2	8	0	0	14	424	0	0
400000	0	0	1	15	0	0	2	2	0	0
510010	0	0	0	0	0	0	2	147	4	779
510090	0	0	2	4	3	102	10	1773	1	725
590000	0	0	0	0	2	34	5	414	10	122
800000	18	160	2	70	6	204	49	2284	63	679
8479899040	0	0	0	0	0	0	15	1127	62	227
908040	0	52	0	0	0	130	0	1139	0	117
8537100030	0	0	0	0	8	32	4	7	2	20
9024100000	0	5	0	0	0	181	0	17	0	122
9031100000	0	12	0	0	0	0	0	90	0	226
300000	0	0	0	0	0	241	0	54	0	0
9032810020	77	3	0	0	2600	16	0	0	13700	129
810060	0	0	7470	25	0	0	11	5	427	77

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
March 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	139	1142	0	0	139	1142
Bulgaria	0	0	0	0	0	0
Czechoslovakia	8	65	0	0	8	65
Denmark	27	103	12	253	39	356
East Germany	141	175	150	4	291	180
Finland	0	0	4	950	4	950
Hungary	0	0	0	0	0	0
Ireland	1	21	0	0	1	21
Luxembourg	0	0	0	0	0	0
Netherlands	3	270	2	174	5	444
Norway	0	0	0	0	0	0
Poland	7	112	0	0	7	112
Portugal	33	122	5	109	38	231
Romania	0	0	0	0	0	0
USSR	1	19	0	0	1	19
Yugoslavia	120	1164	1	147	121	1311
Oth Europe	18	628	0	0	18	628
TOTAL	7861	42295	789	16835	8650	59130
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	1	5	1	5
Mexico	1	2	21	57	22	59
Oth N & C Am.	0	0	0	0	0	0
TOTAL	182	1880	168	4738	350	6618
SOUTH AMERICA						
Argentina	4	29	0	0	4	29
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	1	2	0	0	1	2
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	354	2087	0	0	354	2087
OCEANIA						
Australia	3	47	0	0	3	47
New Zealand	0	0	16	3	16	3
Oth Oceania	0	0	0	0	0	0
TOTAL	3	47	16	3	19	49

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
March 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	5034	1128	5	70	5039	1197
Hong Kong	1	9	0	0	1	9
India	26	286	1	18	27	304
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	20	34	3	49	23	83
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	1	68	0	0	1	68
TOTAL	58395	83468	1075	16869	59470	100338
AFRICA						
Ghana	4	8	0	0	4	8
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	1	42	6	52	7	94
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	5	50	6	52	11	103

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - March 90

RELEASED: May 30, 1990

		TOTAL YTD	
		UNITS	$000
8456300000	Electro-discharge machines	27	1962
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	23	4437
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	7	1620
100035	Horiz. mach. ctrs., ATC	11	3692
100045	Mach. ctrs., n.e.c.	108	12382
200010	Unit construction mach. (single station transfer), NC	0	0
200090	Unit construction mach. (single station transfer), non-NC	4	1772
300010	Multi-station transfer machines, NC	6	9872
300090	Multi-station transfer machines, non-NC	22	4138
8458110010	Horiz. lathes, multiple spindle, NC	7	1111
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	88	6392
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	9	1745
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	9	3326
190030	Horiz. engine or toolroom lathes, non-NC	30	575
190050	Automatic bar and/or chucking mach., single spindle, non-NC	1	104
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	25	1098
190090	Horiz. lathes, n.e.c., non-NC	102	1389
911060	Vertical turret lathes, multiple spindle, NC	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	11	501
915070	Vertical lathes, excl. VTL's, n.e.c., NC	8	1298
991050	Vertical turret lathes, non-NC	5	77
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	19	1199
8459100000	Way-type unit head machines	14	1957
210080	Other drilling machines, NC	37	3693
290040	Drilling machines, multiple spindle, non-NC	9	409
290050	Drilling machines, radial, non-NC	12	85
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	25	464
290090	Drilling machines, n.e.c., non-NC	174	1058
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	83
310070	Boring-milling mach., n.e.c., NC	3	131
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	0	0
400040	Boring machines, vertical, NC	1	689
400050	Boring machines, vertical, non-NC	15	223
400070	Boring machines, n.e.c., NC	6	766
400080	Boring machines, n.e.c., non-NC	5	425
510080	Milling machines, knee type, NC	4	222
590030	Milling machines, knee type, non-NC	27	787
610080	Milling machines, excl. knee type, n.e.c., NC	20	6598
690050	Milling machines, profile, dup., or die sinking, non-NC	19	338
690070	Milling machines, bed type, non-NC	0	0
690090	Milling machines, n.e.c., non-NC	82	4154
700020	Threading or tapping machines, n.e.c., NC	9	523
700080	Threading or tapping machines, n.e.c., non-NC	90	1120
8460110080	Flat surface grinding mach., NC	13	526
190010	Flat surface grinding mach., recip.-table type, non-NC	21	399
190050	Flat surface grinding mach., n.e.c., non-NC	13	2007
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	27	9027
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	11	1870
290030	Grinding mach., internal cylindrical, non-NC	14	1437
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	122	5335
310080	Sharpening machines (tool & cutter grinding), NC	8	218
390050	Sharpening machines (tool & cutter grinding), non-NC	227	6714
400060	Honing or lapping machines, NC	0	0
400080	Honing or lapping machines, non-NC	216	5832
900060	Grinding, honing, polisning, & lapping mach., n.e.c., NC	4	693
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	282	4215
8461100060	Planing machines, NC	1	111
100080	Planing machines, non-NC	101	2772
200010	Shaping or slotting machines, NC	2	73
200090	Shaping or slotting machines, non-NC	16	483
300060	Broaching machines, NC	10	1139
300080	Broaching machines, non-NC	10	596
401050	Gear hobbers	8	838
401070	Gear shapers	16	2944
401090	Gear cutting machines, n.e.c.	23	6867
405060	Gear grinding or finishing machines	30	2113
500050	Sawing or cutting-off machines, NC	49	1551
500090	Sawing or cutting-off machines, non-NC	414	6160
9000000001	Metal cutting machine tools, n.e.c.	261	7418
9800000001	Used or rebuilt machine tools	1108	12732
9900000001	Machine tools valued at less than $2,500	8393	4850
	Y-T-D Cutting Total	12480	173221
	NC Y-T-D Cutting Total*	552	77982

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - March 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	7	580
8457100015	0	0	0	0	4	481	0	0	13	2741
100025	0	0	0	0	0	0	0	0	6	1500
100035	0	0	0	0	5	1105	0	0	0	0
100045	0	0	0	0	27	3677	1	297	19	1866
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	2	1860
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	5	910
110030	1	85	0	0	13	1011	0	0	10	795
110050	0	0	0	0	0	0	0	0	5	859
110090	0	0	0	0	0	0	0	0	9	3326
190030	0	0	0	0	0	0	0	0	2	128
190050	0	0	0	0	0	0	0	0	1	104
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	26	494
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	13
995090	2	61	0	0	0	0	0	0	5	153
8459100000	0	0	0	0	1	181	2	151	0	0
210080	1	33	0	0	0	0	1	35	12	1757
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	11	80
290070	0	0	0	0	0	0	0	0	19	205
290090	0	0	0	0	0	0	13	59	127	651
310010	0	0	0	0	0	0	2	759	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	29
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	689
400050	7	119	0	0	0	0	0	0	3	37
400070	0	0	0	0	0	0	0	0	6	766
400080	0	0	0	0	0	0	0	0	2	307
510080	1	55	0	0	0	0	0	0	1	82
590030	3	91	0	0	0	0	0	0	13	349
610080	1	1376	0	0	0	0	0	0	2	468
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	3	776	10	189
700020	1	17	1	23	0	0	0	0	0	0
700080	2	62	0	0	4	335	0	0	26	268
8460110080	0	0	0	0	0	0	1	18	2	143
190010	0	0	0	0	0	0	0	0	3	133
190050	0	0	0	0	0	0	0	0	4	1013
210080	0	0	0	0	0	0	0	0	9	4271
290010	0	0	0	0	0	0	0	0	1	25
290030	0	0	0	0	0	0	0	0	1	20
290050	0	0	0	0	0	0	19	758	17	544
310080	2	57	0	0	0	0	0	0	0	0
390050	1	46	0	0	1	9	4	29	62	5049
400060	0	0	0	0	0	0	0	0	0	0
400080	4	60	0	0	1	8	1	6	9	222
900060	0	0	0	0	0	0	0	0	1	413
900080	11	122	1	8	0	0	1	180	61	802
8461100060	0	0	0	0	0	0	0	0	1	111
100080	1	17	1	40	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	1	48
200090	0	0	0	0	0	0	0	0	3	50
300060	0	0	0	0	0	0	0	0	2	712
300080	3	50	0	0	0	0	0	0	5	243
401050	0	0	0	0	0	0	0	0	1	63
401070	0	0	0	0	0	0	4	1778	10	916
401090	2	1153	0	0	0	0	1	687	1	487
405060	0	0	0	0	0	0	0	0	2	263
500050	0	0	0	0	0	0	0	0	39	1290
500090	35	327	0	0	0	0	5	95	80	1023
9000000001	0	0	0	0	0	0	5	19	72	516
9800000001	39	732	0	0	0	0	121	432	134	1965
9900000001	505	156	42	28	117	145	30	19	635	681
Y-T-D Tot	622	4618	45	100	173	6951	214	6099	1501	42209
NC YTD Tot*	7	1622	1	23	49	6273	5	1110	151	24721

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - March 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	35
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	617	0	0	0	0	0	0	0	0
100045	6	2518	1	202	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	89	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	200
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	102	9	607	0	0	0	0	0	0
110050	0	0	2	388	2	498	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	2	31	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	10	213
190090	0	0	0	0	0	0	0	0	1	7
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	867	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	48	0	0	0	0	1	39
290040	0	0	0	0	4	169	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	4	0	0	0	0	3	77
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	18	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	1	25	0	0	1	19
610080	11	1315	1	125	1	716	0	0	0	0
690050	0	0	0	0	1	6	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	13	0	0	0	0	0	0	1	316
700020	0	0	0	0	1	341	0	0	0	0
700080	0	0	1	15	4	17	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	3	31	0	0	0	0
190050	0	0	0	0	0	0	1	71	6	808
210080	0	0	3	584	1	359	0	0	0	0
290010	5	830	0	0	0	0	0	0	0	0
290030	2	73	0	0	5	1186	0	0	0	0
290050	2	342	0	0	14	501	0	0	4	413
310080	0	0	1	32	0	0	0	0	0	0
390050	1	28	1	44	2	62	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	27	2	174	0	0	12	145
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	6	55	4	31	0	0	24	238
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	16	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	16	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	228	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	547	0	0	3	1244
405060	0	0	0	0	0	0	0	0	1	920
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	7	129	4	1362	1	9	15	234
9000000001	0	0	21	499	2	27	0	0	2	26
9800000001	21	297	9	159	10	279	0	0	6	60
9900000001	8	5	359	149	63	48	49	10	564	181
Y-T-D Tot	60	6155	430	3414	129	7278	51	91	657	5173
NC YTD Tot*	19	4551	39	2485	9	2807	0	0	1	39

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - March 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	10	647	0	0	0	0	3	146	0	0
8457100015	0	0	1	164	0	0	0	0	0	0
100025	0	0	1	120	0	0	0	0	0	0
100035	0	0	1	270	0	0	0	0	0	0
100045	0	0	25	1946	0	0	14	914	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	2	283	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	18	2178	0	0
8458110010	0	0	1	90	0	0	1	111	0	0
110030	10	831	2	135	0	0	2	144	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	7	148	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	10	241	1	340	0	0	0	0	0	0
190090	11	130	4	22	0	0	42	627	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	2	316	0	0
915050	0	0	0	0	0	0	11	501	0	0
915070	1	25	0	0	0	0	5	407	0	0
991050	0	0	0	0	0	0	1	18	0	0
995090	0	0	0	0	0	0	4	99	0	0
8459100000	0	0	4	345	0	0	2	266	0	0
210080	0	0	1	54	0	0	1	55	0	0
290040	0	0	5	240	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	5	0	0
290070	0	0	0	0	0	0	2	10	0	0
290090	0	0	17	139	0	0	8	46	1	6
310010	0	0	1	809	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	83	0	0
310070	0	0	1	70	0	0	1	32	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	4	49	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	3	118	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	2	67	1	26	0	0
610080	0	0	2	2434	0	0	1	40	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	19	2	368	0	0	61	2202	0	0
700020	0	0	1	23	0	0	0	0	0	0
700080	0	0	0	0	0	0	16	45	0	0
8460110080	3	139	0	0	0	0	7	226	0	0
190010	0	0	0	0	0	0	7	113	0	0
190050	0	0	1	58	0	0	0	0	0	0
210080	2	659	0	0	0	0	2	404	0	0
290010	0	0	2	825	0	0	0	0	0	0
290030	0	0	0	0	0	0	2	38	0	0
290050	1	84	0	0	0	0	23	756	6	208
310080	0	0	0	0	0	0	0	0	0	0
390050	30	200	2	396	15	80	1	9	5	33
400060	0	0	0	0	0	0	0	0	0	0
400080	6	80	55	597	0	0	3	31	4	61
900060	0	0	0	0	0	0	1	44	0	0
900080	22	229	19	232	1	4	35	587	2	17
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	870	31	574	23	200	31	190	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	168	0	0	2	78	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	75	0	0
401050	4	213	2	115	0	0	0	0	0	0
401070	0	0	0	0	0	0	1	212	0	0
401090	4	689	2	189	0	0	4	362	0	0
405060	0	0	13	474	0	0	1	49	0	0
500050	0	0	0	0	0	0	7	101	1	16
500090	47	491	26	336	0	0	31	341	67	352
9000000001	23	2178	12	727	0	0	28	1061	2	59
9800000001	17	73	27	2790	0	0	392	2213	46	225
9900000001	866	301	221	158	20	22	1708	742	60	24
Y-T-D Tot	1070	8097	486	15490	61	373	2499	16219	194	1000
NC YTD Tot*	35	3764	37	6116	0	0	56	3380	2	66

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - March 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	130	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	5	342	1	91
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	55	0	0
190090	0	0	0	0	0	0	1	7	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	18
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	2	663	0	0	0	0	0	0
210080	1	38	0	0	0	0	7	468	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	68	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	34	0	0	0	0	0	0	0	0
610080	0	0	0	0	1	125	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	2	25
190050	0	0	0	0	0	0	1	58	0	0
210080	0	0	0	0	1	294	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	7	3	222	0	0	22	734	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	15	100	2	7	0	0	3	56	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	12	165	7	81	1	18
900060	0	0	0	0	0	0	0	0	0	0
900080	3	23	10	113	12	119	12	91	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	4	705
200010	0	0	0	0	0	0	0	0	0	0
200090	6	23	0	0	0	0	1	7	1	33
300060	8	427	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	575	0	0	0	0
405060	0	0	0	0	8	294	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	10	180	0	0
9000000001	1	6	1	268	14	163	26	295	0	0
9800000001	26	748	3	4	49	190	8	100	4	50
9900000001	517	226	49	61	57	35	140	88	16	26
Y-T-D Tot	581	1829	70	1338	155	1960	244	2562	30	966
NC YTD Tot*	9	465	1	268	2	419	12	810	1	91

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - March 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	100	0	0	0	0	3	148	1	176
8457100015	2	459	0	0	0	0	0	0	3	592
100025	0	0	0	0	0	0	0	0	0	0
100035	2	1139	0	0	0	0	2	562	0	0
100045	3	225	0	0	0	0	3	200	3	104
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	1400	0	0
300010	4	8012	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	2	1760	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	34	2206	0	0	0	0	6	478	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	18	258	0	0	0	0	0	0	1	11
190050	0	0	0	0	0	0	0	0	0	0
190070	1	94	0	0	0	0	2	156	0	0
190090	7	50	0	0	1	3	0	0	9	50
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	2	28	0	0	0	0	0	0	0	0
995090	6	90	0	0	1	755	0	0	1	41
8459100000	0	0	0	0	2	208	0	0	1	142
210080	1	59	0	0	0	0	1	72	9	1035
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	3	130	0	0	0	0	0	0	1	118
290090	1	3	0	0	0	0	2	7	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	2	84
590030	1	53	0	0	0	0	0	0	4	124
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	18	332	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	3	271	0	0	0	0	0	0	0	0
700020	1	26	0	0	0	0	0	0	4	93
700080	7	160	0	0	2	6	0	0	28	213
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	1	16	0	0	5	80
190050	0	0	0	0	0	0	0	0	0	0
210080	3	734	0	0	0	0	4	940	2	783
290010	3	189	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	4	120	0	0
290050	5	195	0	0	0	0	4	397	1	174
310080	0	0	0	0	0	0	0	0	5	129
390050	32	209	0	0	0	0	23	147	27	212
400060	0	0	0	0	0	0	0	0	0	0
400080	3	117	14	3208	0	0	33	378	46	456
900060	0	0	0	0	0	0	0	0	2	236
900080	9	477	0	0	10	117	23	524	16	246
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	50	2	22	4	88
200010	0	0	0	0	0	0	1	25	0	0
200090	0	0	0	0	0	0	0	0	1	108
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	1	448	0	0
401070	0	0	0	0	0	0	0	0	1	38
401090	0	0	0	0	1	68	3	866	0	0
405060	3	34	0	0	0	0	1	70	1	9
500050	2	144	0	0	0	0	0	0	0	0
500090	33	448	0	0	0	0	12	229	41	604
9000000001	37	1419	0	0	2	21	1	10	12	124
9800000001	24	243	0	0	3	34	94	1235	75	904
9900000001	590	326	0	0	268	96	406	148	1103	1175
Y-T-D Tot	841	17896	14	3208	292	1373	652	10672	1409	8150
NC YTD Tot*	68	13630	0	0	0	0	17	2277	31	3066

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - March 90

RELEASED: May 30, 1990

Metal Forming Machine Tools		TOTAL YTD	
		UNITS	$000
8454300010	Die casting machines	90	2538
8462100030	Headers and upsetters, including cold headers	14	5471
100050	Forging or die stamping machines, and hammers, n.e.c.	59	5201
210080	Bending, folding, straight. or flat. mach., incl presses, NC	74	6818
290030	Press brakes, non-NC	49	1176
290040	Bending rolls, non-NC	17	475
290050	Bending, folding, straight., or flat., n.e.c., non-NC	250	6272
310080	Shearing machines, NC	22	2184
390050	Shearing machines, non-NC	101	2392
410080	Punching or notching mach., incl. comb. punch & shear, NC	55	9769
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	205	5455
910060	Hydraulic presses, NC	14	1271
910090	Hydraulic presses, non-NC	170	8663
990030	Presses, n.e.c., NC	26	1991
990040	Presses, mechanical, non-NC	40	4146
990060	Presses, n.e.c., non-NC	412	12796
8463100080	Draw benches for bars, tubes, profiles, wire or the like	48	1067
200080	Thread rolling machines	12	388
300080	Machines for working wire	136	6472
900080	Metal forming machine tools, n.e.c.	555	14179
9800000002	Used or rebuilt machine tools	840	15203
9900000002	Machine tools valued at less than $2,500	2948	2353
	Y-T-D Forming Total	6137	116282
	NC Y-T-D Forming Total	191	22033
	Cutting and Forming Totals:		
	Y-T-D Total	18617	289503
	NC Y-T-D Total*	743	100015

Other Manufacturing Technology		TOTAL YTD	
		UNITS	$000
1000000000	Machine tool parts and accessories	0	184378
2000000000	Parts for working rubber or plastics - heading 8477	0	73541
2710003070	Quenching or cutting oils	0	1797
8428900010	Industrial robots for lifting, handling, loading or unload	64	1340
8431390090	Parts industrial robots, handling and loading - heading 8428	0	17463
8456100000	Laser, light or photon beam for working any material	163	8960
200000	Ultrasonic process for working any material	22	547
8477106010	Injection molding mach., for rubber or oth. thermosetting	38	3098
106070	Injection molding mach., for thermoplastics	83	9063
200010	Extruders for rubber or other thermosetting materials	95	4073
200050	Extruders for processing thermoplastics	218	8482
300000	Blow molding machines	124	8081
400000	Vacuum-molding and other thermoforming machines	4051	5178
510010	Machines for molding or retreading pneumatic tires	202	5190
510090	Machines for molding or otherwise forming inner tubes	110	7836
590000	Machines for molding or otherwise forming n.e.c.	324	4626
800000	Machines for working rubber or plastics n.e.c.	1079	26770
8479899040	Industrial robots, n.e.c.	1930	19964
908040	Industrial robot parts	0	11741
8537100030	Numerical controls for controlling machine tools	580	8203
9024100000	Machines and appliances for testing metals	0	17959
9031100000	Machines for balancing mechanical parts	0	9507
300000	Profile projectors	0	1988
9032810040	Industrial process control instr., hydraulic or pneumatic	166692	10157

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - March 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	9	21	7	40	1	6	1	13	3	1099
8462100030	0	0	0	0	0	0	0	0	2	217
100050	1	67	0	0	0	0	1	51	8	1093
210080	2	62	0	0	0	0	1	50	24	2917
290030	0	0	0	0	0	0	0	0	43	916
290040	1	8	0	0	1	29	0	0	6	94
290050	1	5	0	0	0	0	1	4	82	1480
310080	1	65	0	0	0	0	0	0	3	209
390050	1	10	0	0	0	0	0	0	42	919
410080	1	34	0	0	0	0	3	339	10	1388
490050	6	22	1	149	12	99	0	0	54	592
910060	0	0	0	0	0	0	1	14	2	659
910090	4	69	0	0	1	911	0	0	13	691
990030	0	0	[illegible]	0	0	0	0	0	5	201
990040	0	0	1	566	0	0	0	0	8	324
990060	10	392	0	0	0	0	16	152	57	990
8463100080	2	11	0	0	0	0	2	48	10	46
200080	0	0	0	0	0	0	0	0	4	80
300080	1	59	0	0	0	0	4	82	15	351
900080	6	142	1	7	0	0	5	134	65	825
9800000002	0	0	0	0	4	171	4	100	170	2961
9900000002	57	34	14	9	51	57	168	78	410	378
Y-T-D Tot	103	1001	24	770	70	1274	207	1063	1036	18432
NC YTD Tot	4	161	0	0	0	0	5	402	44	5373
C&F YTD	725	5620	69	870	243	8225	421	7163	2537	60641
C&F NC YTD*	11	1783	1	23	49	6273	10	1512	195	30094

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	2328	0	365	0	1613	0	3346	0	44576
2000000000	0	2339	0	411	0	1584	0	1716	0	20189
2710003070	0	69	0	0	0	0	0	6	0	117
8428900010	1	11	0	0	0	0	0	0	12	603
8431390090	0	614	0	61	0	184	0	28	0	2998
8456100000	1	67	0	0	0	0	0	0	8	696
200000	0	0	0	0	0	0	0	0	1	12
8477106010	0	0	0	0	0	0	0	0	3	215
106070	1	90	2	143	0	0	0	0	17	1841
200010	4	102	0	0	0	0	0	0	51	1913
200050	1	45	0	0	0	0	16	1358	39	1337
300000	11	283	0	0	0	0	7	738	6	1028
400000	1	44	0	0	0	0	14	440	32	1665
510010	0	0	0	0	3	34	3	64	23	2226
510090	2	190	0	0	0	0	0	0	0	0
590000	5	81	2	32	8	133	1	17	32	1297
800000	7	127	1	9	15	230	4	58	312	12163
8479899040	9	48	0	0	4	25	2	76	1392	11774
908040	0	0	0	12	0	28	0	0	0	5161
8537100030	3	40	1	12	0	0	1	18	41	499
9024100000	0	217	0	27	0	129	0	757	0	1771
9031100000	0	16	0	0	0	0	0	253	0	3166
300000	0	0	0	0	0	0	0	89	0	232
9032810040	9531	570	6472	328	4515	226	119	16	5879	302

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - March 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	4	66	8	85	6	61	4	17	0	0
8462100030	0	0	1	667	0	0	0	0	1	113
100050	0	0	0	0	1	40	0	0	2	741
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	1	47	0	0	0	0	0	0
290050	2	59	18	288	3	868	1	7	2	12
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	11	0	0	0	0	0	0
410080	2	2624	18	2465	0	0	0	0	0	0
490050	4	372	4	39	0	0	0	0	16	293
910060	1	5	0	0	0	0	0	0	0	0
910090	15	502	4	108	0	0	0	0	1	11
990030	0	0	0	0	0	0	0	0	3	589
990040	6	651	1	518	0	0	0	0	0	0
990060	0	0	0	0	1	7	0	0	0	0
8463100080	0	0	5	139	2	83	0	0	0	0
200080	0	0	0	0	2	51	0	0	0	0
300080	3	544	7	99	0	0	0	0	6	159
900080	1	595	8	202	12	241	0	0	3	85
9800000002	0	0	11	254	79	3260	0	0	12	362
9900000002	0	0	66	30	101	62	0	0	20	14
Y-T-D Tot	38	5417	153	4952	207	4674	5	24	66	2378
NC YTD Tot	3	2629	18	2465	0	0	0	0	3	589
C&F YTD	98	11572	583	8366	336	11953	56	115	723	7551
C&F NC YTD*	22	7180	57	4950	9	2807	0	0	4	628

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1122	0	4632	0	1083	0	79	0	4447
2000000000	0	2978	0	971	0	2184	0	116	0	1093
2710003070	0	0	0	0	0	0	0	207	0	0
8428900010	18	178	7	177	0	0	0	0	14	165
8431390090	0	240	0	502	0	154	0	10	0	4
8456100000	8	185	2	662	0	0	0	0	3	73
200000	0	0	1	12	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	3	191
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	1	32	1	98	11	269	0	0	11	337
300000	0	0	1	177	0	0	0	0	3	17
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	1	15	1	24	49	10	4	74
510090	0	0	1	660	0	0	0	0	0	0
590000	0	0	7	114	0	0	0	0	6	103
800000	53	201	2	184	51	786	2	18	8	592
8479899040	0	0	17	142	0	0	0	0	6	236
908040	0	0	0	133	0	0	0	0	0	101
8537100030	0	0	70	922	3	41	0	0	16	214
9024100000	0	1625	0	484	0	87	0	371	0	118
9031100000	0	17	0	4	0	90	0	19	0	51
300000	0	0	0	451	0	0	0	0	0	104
9032810040	2225	129	6603	417	415	41	94	5	8438	506

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - March 90

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	50	5	512	2	8	7	90	0	0
8462100030	7	3480	1	556	0	0	0	0	0	0
100050	11	927	4	285	0	0	9	454	0	0
210080	3	1092	4	158	2	65	11	1126	2	180
290030	1	4	0	0	0	0	2	126	0	0
290040	0	0	0	0	0	0	4	140	0	0
290050	12	364	11	281	4	17	22	486	7	314
310080	6	810	2	646	0	0	5	236	5	218
390050	0	0	4	64	0	0	13	328	0	0
410080	0	0	1	95	0	0	6	664	3	533
490050	20	764	1	24	2	11	26	537	2	7
910060	0	0	2	91	0	0	3	85	0	0
910090	1	16	9	3688	0	0	88	1673	3	29
990030	0	0	0	0	0	0	0	0	0	0
990040	2	261	1	45	0	0	1	16	4	252
990060	9	1360	8	1736	0	0	166	2045	7	198
8463100080	0	0	1	102	0	0	3	191	0	0
200080	0	0	0	0	0	0	2	34	1	132
300080	3	20	5	415	2	53	14	318	2	20
900080	36	1038	19	635	9	125	114	1540	6	46
9800000002	15	585	50	2474	0	0	206	1734	0	0
9900000002	189	109	9	6	0	0	964	864	33	34
Y-T-D Tot	316	10880	137	11812	21	280	1666	12686	75	1965
NC YTD Tot	9	1902	9	989	2	65	25	2110	10	931
C&F YTD	1386	18977	623	27303	82	653	4165	28905	269	2964
C&F NC YTD*	44	5667	46	7105	2	65	81	5490	12	997

Other Manufacturing Technology

	Japan Units	Japan $000	Korea Units	Korea $000	Malaysia Units	Malaysia $000	Mexico Units	Mexico $000	Netherlands Units	Netherlands $000
1000000000	0	15266	0	6707	0	1028	0	13638	0	1299
2000000000	0	2729	0	1522	0	708	0	6853	0	1059
2710003070	0	112	0	30	0	10	0	94	0	64
8428900010	4	37	0	0	3	4	0	0	0	0
8431390090	0	502	0	388	0	0	0	2214	0	378
8456100000	51	3713	5	100	15	406	1	27	3	381
200000	0	0	0	0	0	0	1	33	0	0
8477106010	0	0	5	496	0	0	24	2007	0	0
106070	1	85	0	0	0	0	31	[illegible]315	1	48
200010	0	0	0	0	0	0	19	749	0	0
200050	20	2198	17	429	1	23	47	906	0	0
300000	0	0	1	484	0	0	25	1404	0	0
400000	8	177	32	1170	2	4	3883	1506	0	0
510010	16	402	0	0	1	8	5	134	0	0
510090	2	3	19	2841	0	0	47	226	0	0
590000	72	239	27	427	0	0	64	728	2	37
800000	24	2238	39	587	1	15	309	3836	6	151
8479899040	6	96	14	154	7	112	24	327	1	15
908040	0	354	0	3156	0	3	0	6	0	11
8537100030	16	258	17	195	0	0	2	43	0	0
9024100000	0	3217	0	1285	0	129	0	388	0	89
9031100000	0	75	0	3628	0	0	0	1292	0	8
300000	0	758	0	25	0	0	0	48	0	7
9032810040	6354	521	9562	370	52	3	1434	291	27857	1479

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - March 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	7	25
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	3	302	2	105	0	0	1	64
210080	0	0	1	31	1	30	4	194	0	0
290030	0	0	1	41	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	39	0	0	3	68	5	119	8	175
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	22	0	0
410080	0	0	0	0	0	0	6	454	0	0
490050	4	566	1	70	0	0	4	330	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	1	17	0	0	1	15	2	58	0	0
990030	0	0	0	0	0	0	5	596	0	0
990040	1	30	0	0	1	120	12	550	0	0
990060	2	65	0	0	2	504	61	1427	0	0
8463100080	0	0	4	101	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	2	50	1	27	0	0	1	85
900080	5	153	1	169	0	0	6	1684	0	0
9800000002	12	135	1	45	0	0	13	87	1	17
9900000002	73	66	0	0	92	79	0	0	8	4
Y-T-D Tot	100	1071	14	808	103	947	119	5521	26	370
NC YTD Tot	0	0	1	31	1	30	15	1244	0	0
C&F YTD	681	2899	84	2146	258	2907	363	8083	56	1336
C&F NC YTD*	9	465	2	299	3	449	27	2054	1	91

Other Manufacturing Technology

1000000000	0	3262	0	2310	0	1634	0	2883	0	1292
2000000000	0	791	0	387	0	585	0	915	0	350
2710003070	0	37	0	0	0	0	0	297	0	19
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	638	0	5	0	139	0	348	0	0
8456100000	4	99	7	155	2	165	3	730	0	0
200000	0	0	2	53	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	4	170	0	0	0	0
200010	0	0	0	0	0	0	4	816	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	10	977	6	424	16	588	0	0
400000	1	10	0	0	9	14	3	21	0	0
510010	2	32	14	372	0	0	0	0	0	0
510090	0	0	0	0	1	24	3	89	0	0
590000	2	39	5	56	16	78	8	236	0	0
800000	7	236	2	497	25	63	5	13	1	33
8479899040	32	195	8	281	59	566	2	159	0	0
908040	0	72	0	62	0	94	0	5	0	0
8537100030	1	16	3	24	10	145	5	69	5	55
9024100000	0	136	0	392	0	527	0	259	0	0
9031100000	0	28	0	14	0	0	0	125	0	0
300000	0	46	0	0	0	7	0	49	0	0
9032810040	3009	537	2948	156	433	27	2401	458	20822	192

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - March 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	13	188	0	0	0	0	0	0	12	257
8462100030	0	0	0	0	0	0	2	438	0	0
100050	5	378	0	0	0	0	0	0	11	693
210080	0	0	0	0	1	28	2	128	16	756
290030	0	0	0	0	0	0	0	0	2	89
290040	0	0	0	0	2	70	0	0	2	86
290050	4	67	0	0	0	0	27	635	35	984
310080	0	0	0	0	0	0	0	0	0	0
390050	25	711	0	0	0	0	4	52	10	275
410080	4	922	0	0	0	0	1	254	0	0
490050	5	196	0	0	0	0	6	146	37	1240
910060	2	401	0	0	0	0	0	0	3	18
910090	11	114	0	0	0	0	5	230	11	530
990030	3	206	0	0	0	0	0	0	10	398
990040	1	599	0	0	0	0	1	215	0	0
990060	46	1132	0	0	3	78	13	1420	11	1288
8463100080	2	85	0	0	0	0	11	103	6	156
200080	0	0	0	0	0	0	1	48	2	43
300080	7	215	0	0	1	15	38	1634	24	2325
900080	99	1269	0	0	1	15	44	1060	114	4213
9800000002	20	149	0	0	1	40	27	750	214	2077
9900000002	192	161	0	0	36	30	212	148	253	192
Y-T-D Tot	439	6794	0	0	45	276	394	7263	773	15621
NC YTD Tot	9	1529	0	0	1	28	3	382	29	1172
C&F YTD	1280	24690	14	3208	337	1650	1046	17935	2182	23771
C&F NC YTD*	77	15159	0	0	1	28	20	2660	60	4238

Other Manufacturing Technology

1000000000	0	22062	0	817	0	1265	0	20390	0	26934
2000000000	0	2455	0	0	0	1174	0	4298	0	16135
2710003070	0	29	0	0	0	4	0	49	0	653
8428900010	1	13	0	0	0	0	3	141	1	11
8431390090	0	709	0	0	0	65	0	306	0	6975
8456100000	16	585	0	0	0	0	3	43	31	873
200000	4	93	0	0	0	0	0	0	13	345
8477106010	1	100	0	0	1	25	0	0	1	63
106070	9	646	0	0	0	0	14	1625	3	100
200010	3	47	0	0	1	40	0	0	13	408
200050	1	10	0	0	0	0	21	543	31	897
300000	1	11	0	0	0	0	5	83	32	1867
400000	1	120	0	0	0	0	0	0	65	7
510010	12	353	0	0	13	304	7	208	48	930
510090	10	3	3	84	0	0	5	113	17	3603
590000	29	342	1	15	0	0	21	405	16	247
800000	18	2066	0	0	88	29	17	358	82	2280
8479899040	55	507	1	46	1	6	210	4412	80	788
908040	0	696	0	0	0	17	0	1558	0	273
8537100030	247	3536	0	0	0	0	57	936	82	1180
9024100000	0	2191	0	248	0	136	0	2048	0	1327
9031100000	0	113	0	0	0	218	0	69	0	321
300000	0	6	0	0	0	0	0	123	0	41
9032810040	17538	1405	3	17	2188	205	13092	776	14708	1180

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8465300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - March 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	7	288	18	3	25	291
East Germany	0	0	1	80	1	80
Finland	13	38	16	462	29	500
Greece	88	58	0	0	88	58
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	18	437	20	69	38	506
Luxembourg	0	0	0	0	0	0
Norway	48	345	4	45	52	390
Poland	15	22	9	363	24	385
Portugal	2	3	59	1045	61	1047
Romania	0	0	0	0	0	0
Sweden	30	792	52	1409	82	2201
Turkey	20	16	4	150	24	166
Yugoslavia	3	957	3	252	6	1209
Oth Europe	0	0	0	0	0	0
TOTAL	3475	54666	1524	31029	4999	85695
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	3	8	3	8
Belize	2	9	4	3	6	12
Bermuda	18	12	0	0	18	12
Costa Rica	4	25	5	45	9	70
Dominican Rep	14	97	74	1104	88	1201
El Salvador	0	0	7	99	7	99
Guatemala	8	19	7	38	15	56
Haiti	0	0	3	32	3	32
Honduras	77	344	12	25	89	368
Jamaica	22	80	4	4	26	84
Panama	0	0	2	42	2	42
Trinidad	1	4	3	61	4	65
Oth N & C Am.	9	112	7	158	16	270
TOTAL	4155	59128	2833	32737	6988	91865
SOUTH AMERICA						
Argentina	4	62	2	33	6	95
Bolivia	0	0	0	0	0	0
Chile	68	778	25	51	93	829
Colombia	24	210	45	708	69	918
Ecuador	49	96	2	5	51	101
Paraguay	0	0	0	0	0	0
Peru	6	63	7	166	13	229
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	657	8682	333	2302	990	10984
OCEANIA						
New Zealand	22	249	20	379	42	628
Oth Oceania	0	0	0	0	0	0
TOTAL	644	4867	123	1381	767	6248

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - March 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	573	991	57	553	630	1544
Iran	0	0	0	0	0	0
Iraq	1	4	46	4366	47	4370
Israel	32	539	30	902	62	1441
Jordan	0	0	1	5	1	5
Kuwait	2	18	2	135	4	153
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	13	178	0	0	13	178
Philippines	36	199	125	914	161	1113
Qatar	0	0	0	0	0	0
Saudi Arabia	17	166	52	949	69	1115
Sri Lanka	2	52	0	0	2	52
Syria	0	0	0	0	0	0
United Arab Emr	18	17	13	19	31	35
Vietnam	0	0	0	0	0	0
Oth Asia	2	9	0	0	2	9
TOTAL	3408	45014	1295	47893	4703	92907
AFRICA						
Algeria	0	0	2	134	2	134
Botswana	0	0	0	0	0	0
Egypt	17	47	18	562	35	609
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	56	107	0	0	56	107
South Africa	67	707	9	244	76	951
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	1	3	0	0	1	3
Oth Africa	0	0	0	0	0	0
TOTAL	141	863	29	940	170	1804

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - March 90

RELEASED: May 30, 1990

		TOTAL YTD	
		UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	273	16002
301050	Electro-discharge machines, n.e.c., NC	49	2203
301070	Electro-discharge machines, n.e.c., non-NC	94	2116
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	624	51303
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	37	6157
100035	Horiz. mach. ctrs., ATC	178	40807
100045	Mach. ctrs., n.e.c.	61	6101
200010	Unit construction mach. (single station transfer), NC	13	1295
200090	Unit construction mach. (single station transfer), non-NC	0	0
300010	Multi-station transfer machines, NC	8	3535
300090	Multi-station transfer machines, non-NC	19	5696
8458110010	Horiz. lathes, multiple spindle, NC	82	12739
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	653	45384
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	154	20396
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	18	4542
190030	Horiz. engine or toolroom lathes, non-NC	1048	9948
190050	Automatic bar and/or chucking mach., single spindle, non-NC	107	5248
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	42	3433
190090	Horiz. lathes, n.e.c., non-NC	407	4078
911060	Vertical turret lathes, multiple spindle, NC	13	2154
911080	Vertical turret lathes, n.e.c., NC	7	1479
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	22	2786
991050	Vertical turret lathes, non-NC	41	771
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	250	4371
8459100000	Way-type unit head machines	0	0
210080	Other drilling machines, NC	101	6977
290040	Drilling machines, multiple spindle, non-NC	40	1125
290050	Drilling machines, radial, non-NC	113	851
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	18	184
290090	Drilling machines, n.e.c., non-NC	112	2938
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	2	297
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	24	2415
310070	Boring-milling mach., n.e.c., NC	12	636
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	8	526
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	28	895
400040	Boring machines, vertical, NC	0	0
400050	Boring machines, vertical, non-NC	13	477
400070	Boring machines, n.e.c., NC	7	396
400080	Boring machines, n.e.c., non-NC	44	1675
510080	Milling machines, knee type, NC	116	2482
590030	Milling machines, knee type, non-NC	927	6558
610080	Milling machines, excl. knee type, n.e.c., NC	75	3836
690050	Milling machines, profile, dup., or die sinking, non-NC	6	28
690070	Milling machines, bed type, non-NC	21	771
690090	Milling machines, n.e.c., non-NC	164	5584
700020	Threading or tapping machines, n.e.c., NC	47	2223
700080	Threading or tapping machines, n.e.c., non-NC	53	1130
8460110080	Flat surface grinding mach., NC	25	1754
190010	Flat surface grinding mach., recip.-table type, non-NC	261	3383
190050	Flat surface grinding mach., n.e.c., non-NC	512	4791
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	113	20553
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	124	4208
290030	Grinding mach., internal cylindrical, non-NC	28	3035
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	250	9996
310080	Sharpening machines (tool & cutter grinding), NC	65	1278
390050	Sharpening machines (tool & cutter grinding), non-NC	237	2757
400060	Honing or lapping machines, NC	10	974
400080	Honing or lapping machines, non-NC	64	1658
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	15	693
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	372	10901
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	1	5
200010	Shaping or slotting machines, NC	65	2295
200090	Shaping or slotting machines, non-NC	72	1116
300060	Broaching machines, NC	2	5118
300080	Broaching machines, non-NC	17	917
401020	Gear cutting for bevel gears	0	0
401030	Gear hobbers	15	2136
401040	Gear shapers	8	2243
401060	Gear cutting machines, n.e.c.	63	416
405050	Gear grinding or finishing for bevel gears	41	586
405070	Gear grinding or finishing machines, n.e.c.	23	7161
500050	Sawing or cutting-off machines, NC	46	1604
500090	Sawing or cutting-off machines, non-NC	482	7745
9000000001	Metal cutting machine tools, n.e.c.	113	2864
9800000001	Used or rebuilt machine tools	464	8036
9900000001	Machine tools valued at less than $2,500	207035	22957

Please see notes on last page	Y-T-D Cutting Total	216654	425730
of the metal forming section.	NC Y-T-D Cutting Total	2922	270588

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - March 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	3	152	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	12	156	0	0
8457100015	0	0	0	0	0	0	1	65	0	0
100025	0	0	0	0	0	0	5	513	0	0
100035	0	0	0	0	0	0	1	209	0	0
100045	0	0	0	0	1	2	0	0	4	102
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	78	0	0	1	980
300090	0	0	0	0	4	1840	0	0	3	1318
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	3	31	0	0
110050	0	0	0	0	0	0	12	1472	1	107
110090	0	0	0	0	0	0	0	0	2	1413
190030	0	0	203	1363	14	239	3	74	0	0
190050	0	0	5	22	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	262	1503	0	0	2	6	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	1	488	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	2	0	0	2	370
991050	0	0	0	0	0	0	2	248	0	0
995090	0	0	71	290	23	70	11	615	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	435	4	468	1	146	0	0
290040	0	0	0	0	0	0	1	4	4	23
290050	0	0	24	236	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	6	194	4	403	6	1155
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	2	37	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	15	0	0	9	233
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	10	151
400070	0	0	0	0	0	0	0	0	6	95
400080	0	0	0	0	23	174	0	0	13	95
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	1	827	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	5	0	0	6	3682
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	3	42	0	0	3	48
8460110080	1	104	0	0	0	0	0	0	2	60
190010	0	0	0	0	0	0	0	0	17	324
190050	0	0	0	0	8	33	1	8	2	30
210080	0	0	0	0	0	0	1	39	1	92
290010	0	0	0	0	52	335	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	12	54	0	0	8	169
310080	0	0	0	0	0	0	6	13	0	0
390050	0	0	0	0	10	30	2	48	3	23
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	25
900060	0	0	0	0	1	4	0	0	7	133
900080	1	3	0	0	19	294	11	49	65	3205
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	3	8	0	0	25	70	0	0	1	155
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	41
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	1	184
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	1	172	1	3	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	1	6	0	0	1	76
500050	0	0	0	0	0	0	0	0	1	7
500090	5	20	0	0	69	772	4	120	78	512
9000000001	0	0	0	0	4	68	44	792	6	35
9800000001	3	403	0	0	31	178	1	73	3	14
9900000001	2	3	16	34	148	142	371	311	10737	1739
Y-T-D Tot	15	540	583	4055	466	5980	503	6035	11005	16596
NC YTD Tot	1	104	1	435	11	1417	34	3128	28	3380

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - March 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	190	13535	0	0	0	0	0	0	0	0
301050	26	1582	0	0	0	0	1	18	1	2
301070	3	215	0	0	0	0	0	0	0	0
8457100015	365	35433	10	611	54	3042	2	156	0	0
100025	29	5350	0	0	0	0	0	0	0	0
100035	135	32772	0	0	0	0	0	0	0	0
100045	6	1338	0	0	0	0	0	0	0	0
200010	0	0	12	1214	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	4	1983	0	0	0	0	0	0	0	0
300090	2	1150	0	0	0	0	0	0	0	0
8458110010	70	10563	0	0	0	0	0	0	0	0
110030	547	41201	15	874	0	0	0	0	0	0
110050	138	18250	0	0	0	0	0	0	0	0
110090	9	1881	0	0	0	0	1	150	0	0
190030	18	275	30	362	80	959	8	387	0	0
190050	14	1115	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	9	1265	5	151	0	0	0	0	0	0
911060	5	902	1	159	0	0	0	0	1	201
911080	6	991	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	5	1144	2	204	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	2	186	30	1754	0	0	7	72	2	18
8459100000	0	0	0	0	0	0	0	0	0	0
210080	85	5628	0	0	0	0	0	0	1	7
290040	2	269	0	0	0	0	0	0	0	0
290050	2	32	0	0	0	0	2	64	2	44
290070	6	128	0	0	0	0	0	0	8	25
290090	13	578	0	0	0	0	55	330	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	6	201	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	1	32	1	4
390050	0	0	0	0	0	0	4	544	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	1	316	0	0	0	0	0	0	0	0
400070	1	301	0	0	0	0	0	0	0	0
400080	3	1126	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	14	195	0	0
590030	19	370	0	0	0	0	428	3345	0	0
610080	7	1359	0	0	6	250	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	8	198	0	0	0	0	0	0	2	314
690090	10	716	0	0	0	0	14	38	0	0
700020	47	2223	0	0	0	0	0	0	0	0
700080	32	708	0	0	0	0	0	0	0	0
8460110080	10	482	0	0	0	0	1	12	1	379
190010	75	1245	0	0	90	1135	0	0	0	0
190050	11	628	1	22	4	78	2	139	2	6
210080	62	9548	0	0	0	0	0	0	2	856
290010	8	473	0	0	0	0	0	0	2	167
290030	1	18	0	0	0	0	0	0	1	333
290050	66	7104	0	0	0	0	0	0	1	4
310080	6	312	0	0	0	0	0	0	0	0
390050	33	805	0	0	0	0	0	0	0	0
400060	7	580	0	0	0	0	0	0	0	0
400080	7	583	0	0	0	0	0	0	19	421
900060	6	474	0	0	0	0	0	0	0	0
900080	52	2608	13	109	0	0	0	0	1	7
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	63	2009	0	0	0	0	0	0	0	0
200090	1	83	0	0	37	230	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	2	50	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	5	640	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	1	175	0	0	0	0	0	0	0	0
405050	40	120	0	0	0	0	0	0	0	0
405070	5	1106	0	0	0	0	0	0	0	0
500050	7	298	0	0	0	0	0	0	0	0
500090	58	2268	0	0	0	0	8	62	1	8
9000000001	10	390	0	0	0	0	0	0	4	157
9800000001	110	2322	0	0	0	0	9	288	6	99
9900000001	11796	1920	1006	323	8	1	0	0	307	352
Y-T-D Tot	14267	221518	1125	5782	279	5695	557	5832	365	3405
NC YTD Tot	1846	190488	40	3060	60	3292	19	531	6	1445

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - March 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	47	1971	31	270	0	0	0	0	2	74
301050	8	229	6	127	6	31	1	214	0	0
301070	16	797	42	633	4	14	1	41	16	260
8457100015	1	583	16	1367	132	7369	10	1010	33	1667
100025	0	0	3	294	0	0	0	0	0	0
100035	0	0	6	788	1	94	35	6944	0	0
100045	3	447	14	912	4	181	28	3087	1	32
200010	0	0	0	0	0	0	1	81	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	89	1	405	0	0
300090	9	1249	0	0	0	0	1	140	0	0
8458110010	0	0	0	0	5	645	7	1531	0	0
110030	5	390	35	1890	5	214	0	0	43	785
110050	0	0	2	113	0	0	0	0	1	454
110090	0	0	0	0	1	104	5	994	0	0
190030	5	14	207	1652	137	1748	0	0	343	2877
190050	8	827	69	546	8	487	3	2252	0	0
190070	9	2044	27	166	0	0	2	1088	4	135
190090	2	46	0	0	40	545	0	0	87	562
911060	4	193	0	0	0	0	1	622	1	78
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	3	489	9	579
991050	5	358	10	36	0	0	0	0	24	129
995090	2	74	0	0	27	749	17	104	58	440
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	37	0	0	1	170	6	82	1	5
290040	6	627	25	71	0	0	0	0	2	130
290050	0	0	40	225	0	0	2	16	41	235
290070	0	0	4	31	0	0	0	0	0	0
290090	0	0	0	0	0	0	4	96	24	182
310010	0	0	2	297	0	0	0	0	0	0
310040	0	0	1	1	2	472	3	1394	16	511
310070	2	61	1	9	0	0	1	255	2	110
390040	0	0	1	19	0	0	4	415	1	57
390050	0	0	14	103	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	2	10	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	1	11	0	0	3	71	1	200	0	0
510080	1	92	55	579	40	1371	1	122	5	124
590030	0	0	333	1762	81	468	5	309	61	303
610080	5	86	35	600	6	384	4	262	11	67
690050	0	0	5	24	0	0	1	4	0	0
690070	0	0	10	204	0	0	1	55	0	0
690090	3	196	63	355	0	0	10	436	57	154
700020	0	0	0	0	0	0	0	0	0	0
700080	1	6	0	0	2	49	12	277	0	0
8460110080	0	0	3	72	4	183	2	457	1	6
190010	0	0	43	252	0	0	35	411	1	16
190050	10	143	404	2788	25	489	23	217	19	211
210080	9	1393	0	0	1	88	36	8397	1	140
290010	20	1923	6	120	7	329	3	607	26	254
290030	8	1020	0	0	3	68	7	1525	8	71
290050	5	180	41	164	33	466	68	1452	16	405
310080	5	39	24	132	2	432	20	347	2	5
390050	26	323	44	211	55	366	61	733	3	218
400060	0	0	0	0	0	0	3	394	0	0
400080	0	0	0	0	15	170	8	249	14	210
900060	0	0	0	0	0	0	1	82	0	0
900080	13	334	29	187	27	121	95	3357	46	628
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	5
200010	0	0	0	0	0	0	2	286	0	0
200090	1	17	0	0	2	8	2	544	0	0
300060	0	0	0	0	2	5118	0	0	0	0
300080	0	0	0	0	0	0	14	825	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	2	15	6	1276	1	21
401040	0	0	0	0	0	0	8	2243	0	0
401060	0	0	0	0	14	35	46	31	0	0
405050	1	467	0	0	0	0	0	0	0	0
405070	1	5	0	0	4	648	8	5200	3	120
500050	0	0	2	50	0	0	36	1249	0	0
500090	4	90	47	240	37	163	77	2950	94	540
9000000001	4	511	0	0	1	3	14	742	26	167
9800000001	69	505	15	162	102	2133	89	1716	26	142
9900000001	177	100	158449	14449	842	559	1428	816	21748	2208
Y-T-D Tot	497	17388	160164	31902	1686	26661	2263	59029	22879	15313
NC YTD Tot	91	5522	236	7504	213	16945	207	28704	129	4634

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - March 90

RELEASED: May 30, 1990

Metal Forming Machine Tools

		TOTAL YTD UNITS	TOTAL YTD $000
8454300010	Die casting machines	109	5811
8462100030	Headers and upsetters, including cold headers	36	3995
100050	Forging or die stamping machines, and hammers, n.e.c.	271	15926
210080	Bending, folding, straight. or flat. mach., incl presses, NC	146	6793
290030	Press brakes, non-NC	61	1598
290040	Bending rolls, non-NC	29	913
290050	Bending, folding, straight., or flat., n.e.c., non-NC	313	10429
310080	Shearing machines, NC	15	1141
390050	Shearing machines, non-NC	137	4161
410080	Punching or notching mach., incl. comb. punch & shear, NC	95	11238
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	188	3070
910060	Hydraulic presses, NC	4	824
910090	Hydraulic presses, non-NC	545	3363
990030	Presses, n.e.c., NC	36	3269
990035	Mechanical transfer presses, non-NC	0	0
990045	Mechanical presses, n.e.c., non-NC	31	833
990060	Presses, n.e.c., non-NC	191	6553
8463100080	Draw benches for bars, tubes, profiles, wire or the like	10	459
200080	Thread rolling machines	31	1454
300080	Machines for working wire	467	20091
900080	Metal forming machine tools, n.e.c.	136	4786
9800000002	Used or rebuilt machine tools	194	4556
9900000002	Machine tools valued at less than $2,500	3297	1476
	Y-T-D Forming Total	6342	112739
	NC Y-T-D Forming Total	296	23265
	Cutting and Forming Totals:		
	Y-T-D Total	222996	538469
	NC Y-T-D Total	3218	293853

Other Manufacturing Technology

		TOTAL YTD UNITS	TOTAL YTD $000
1000000000	Machine tool parts and accessories	0	147266
2000000000	Parts for working rubber or plastics - heading 8477	0	80862
2710003070	Quenching or cutting oils	0	54
8428900010	Industrial robots for lifting, handling, loading or unload	937	12351
8431390080	Parts industrial robots, handling and loading - heading 8428	0	23615
8456101010	Laser, light or photon beam for working metal, NC	48	9067
101020	Laser, light or photon beam for working metal, non-NC	30	432
105000	Laser, light or photon beam for other materials	40	331
201010	Ultrasonic processes for working metal, NC	0	0
201050	Ultrasonic processes for working metal, non-NC	2	22
205000	Ultrasonic processes for working other materials	4	184
8477103000	Injection molding mach., for manufacturing shoes	19	937
106010	Injection molding mach., for rubber or oth. thermosetting	216	18229
106050	Injection molding mach., for thermoplastics	688	59750
200010	Extruders for rubber or other thermosetting materials	48	3569
200050	Extruders for processing thermoplastics	240	16018
300000	Blow molding machines	130	9534
400000	Vacuum-molding and other thermoforming machines	25	1227
510010	Machines for molding or retreading pneumatic tires	188	13759
510090	Machines for molding or otherwise forming inner tubes	71	4487
590000	Machines for molding or otherwise forming n.e.c.	203	24861
800000	Machines for working rubber or plastics n.e.c.	1461	33851
8479899040	Industrial robots, n.e.c.	3886	20389
908040	Industrial robot parts	0	8226
8537100030	Numerical controls for controlling machine tools	4585	10728
9024100000	Machines and appliances for testing metals	0	2666
9031100000	Machines for balancing mechanical parts	0	1646
300000	Profile projectors	0	1426
9032810020	Industrial process control instr., hydraulic	34377	366
810060	Industrial process control instr., pneumatic	43788	1036

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - March 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	23	1439	0	0	0	0
8462100030	0	0	0	0	0	0	1	12	10	1196
100050	0	0	0	0	16	771	94	84	9	648
210080	1	239	0	0	5	234	2	20	5	255
290030	9	311	0	0	45	1178	0	0	0	0
290040	0	0	0	0	7	49	0	0	4	175
290050	2	14	0	0	123	2818	0	0	26	247
310080	9	428	0	0	0	0	0	0	0	0
390050	23	468	0	0	25	536	1	15	6	427
410080	1	1068	0	0	1	10	0	0	1	54
490050	0	0	0	0	13	640	0	0	10	95
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	32	1577	2	2	4	62
990030	0	0	0	0	0	0	0	0	28	189
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	1	5	0	0	1	10
990060	0	0	0	0	61	2115	5	19	19	418
8463100080	1	228	0	0	0	0	0	0	5	45
200080	0	0	0	0	1	11	0	0	1	48
300080	63	2287	0	0	12	1693	1	24	68	6043
900080	0	0	0	0	13	618	1	109	9	231
9800000002	22	526	0	0	59	721	1	51	2	1008
9900000002	0	0	0	0	47	43	19	33	129	58
Y-T-D Tot	131	5570	0	0	484	14457	127	368	337	11208
NC YTD Tot	11	1735	0	0	6	244	2	20	34	497
C&F Y-T-D	146	6110	583	4055	950	20438	630	6403	11342	27804
C&F NC YTD	12	1839	1	435	17	1661	36	3148	62	3878

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	2556	0	76	0	22609	0	2455	0	5144
2000000000	0	2074	0	18	0	15665	0	4844	0	2300
2710003070	0	0	0	0	0	5	0	0	0	0
8428900010	0	0	0	0	92	1997	1	49	2	1361
8431390080	0	18	0	85	0	3198	0	157	0	768
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	4	152	0	0	1	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	1	8	0	0
8477103000	0	0	0	0	0	0	0	0	9	751
106010	0	0	0	0	6	1198	16	1893	1	125
106050	0	0	0	0	125	12475	4	716	33	3941
200010	3	16	0	0	10	88	0	0	7	91
200050	1	2	0	0	22	446	1	70	22	3193
300000	0	0	0	0	2	336	1	52	1	19
400000	0	0	0	0	4	107	0	0	0	0
510010	1	5	0	0	38	3480	28	125	11	643
510090	0	0	0	0	0	0	2	16	14	20
590000	0	0	0	0	10	597	1	134	26	795
800000	64	635	0	0	82	1320	306	3134	18	707
8479899040	9	152	0	0	583	742	0	0	3	161
908040	0	101	0	0	0	124	0	41	0	121
8537100030	0	0	0	0	5	21	0	0	77	77
9024100000	0	6	0	0	0	99	0	38	0	82
9031100000	0	0	0	0	0	13	0	53	0	92
300000	0	0	0	0	0	7	0	0	0	9
9032810020	0	0	0	0	8	45	0	0	42	1
810060	2	1	0	0	0	0	0	0	1564	145

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - March 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	45	3075	0	0	0	0	0	0	0	0
8462100030	24	2647	0	0	0	0	0	0	0	0
100050	60	8183	1	32	5	9	1	6	8	292
210080	102	4516	0	0	0	0	0	0	2	195
290030	3	77	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	5	436
290050	35	3078	0	0	0	0	0	0	35	592
310080	4	683	0	0	0	0	0	0	0	0
390050	26	1772	1	30	0	0	0	0	5	70
410080	41	4796	0	0	0	0	0	0	0	0
490050	9	215	0	0	0	0	45	457	5	90
910060	0	0	0	0	0	0	0	0	1	243
910090	117	1038	0	0	0	0	1	14	1	150
990030	5	2669	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	14	705	0	0	0	0	0	0	0	0
990060	27	1169	0	0	0	0	4	12	4	72
8463100080	2	179	0	0	0	0	0	0	0	0
200080	21	1054	0	0	0	0	7	322	0	0
300080	147	6156	0	0	0	0	0	0	1	4
900080	49	1014	0	0	0	0	4	31	2	249
9800000002	20	1718	0	0	0	0	0	0	2	20
9900000002	333	293	3	1	0	0	68	58	224	52
Y-T-D Tot	1084	45039	5	64	5	9	130	901	295	2466
NC YTD Tot	152	12664	0	0	0	0	0	0	3	439
C&F Y-T-D	15351	266557	1130	5846	284	5704	687	6732	660	5871
C&F NC YTD	1998	203153	40	3060	60	3292	19	531	9	1884

Other Manufacturing Technology

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	44854	0	577	0	1600	0	852	0	2958
2000000000	0	20232	0	239	0	182	0	69	0	410
2710003070	0	26	0	0	0	0	0	0	0	0
8428900010	244	5137	0	0	0	0	0	0	30	1139
8431390080	0	4162	0	54	0	0	0	26	0	380
8456101010	38	8027	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	1	5	0	0	0	0	0	0	0	0
205000	2	138	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	121	10185	4	184	4	243	0	0	0	0
106050	148	22299	13	283	1	13	0	0	1	15
200010	11	2772	1	8	0	0	0	0	0	0
200050	12	2214	1	11	0	0	0	0	25	1305
300000	39	2413	42	234	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	97	8201	0	0	0	0	0	0	0	0
510090	13	1501	3	19	0	0	0	0	1	2
590000	63	20970	2	38	0	0	0	0	2	140
800000	199	13105	0	0	2	600	0	0	2	21
8479899040	3121	14286	0	0	0	0	4	166	26	1388
908040	0	3434	0	0	0	6	0	0	0	232
8537100030	4301	10426	0	0	0	0	0	0	0	0
9024100000	0	618	0	0	0	0	0	0	0	0
9031100000	0	863	0	0	0	0	0	0	0	17
300000	0	590	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	1	8
810060	258	32	0	0	0	0	0	0	2086	424

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - March 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	355	0	0	1	81	4	859	34	2
8462100030	0	0	0	0	0	0	1	139	0	0
100050	7	2649	2	59	23	981	20	1397	25	815
210080	0	0	3	82	3	33	14	909	9	310
290030	0	0	4	32	0	0	0	0	0	0
290040	1	5	2	24	2	52	0	0	8	173
290050	6	250	14	131	11	566	12	2112	49	620
310080	2	30	0	0	0	0	0	0	0	0
390050	1	181	1	4	22	124	16	392	10	142
410080	4	865	0	0	1	83	40	3175	6	1186
490050	4	128	12	39	58	731	19	375	13	301
910060	0	0	0	0	0	0	3	580	0	0
910090	9	43	315	176	0	0	28	184	36	115
990030	2	149	0	0	0	0	1	263	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	10	45	0	0	1	7	4	62	0	0
990060	0	0	37	1190	11	564	14	857	9	136
8463100080	1	3	0	0	0	0	1	4	0	0
200080	0	0	0	0	0	0	0	0	1	19
300080	11	718	16	171	39	305	103	2592	6	97
900080	16	1484	4	125	19	147	18	774	1	5
9800000002	6	10	4	3	45	211	28	194	5	95
9900000002	152	35	1302	417	49	64	319	73	652	347
Y-T-D Tot	234	6950	1716	2453	285	3948	645	14942	864	4365
NC YTD Tot	8	1044	3	82	4	115	58	4928	15	1496
C&F Y-T-D	731	24338	161880	34355	1971	30608	2908	73971	23743	19678
C&F NC YTD	99	6566	239	7585	217	17061	265	33631	144	6130

Other Manufacturing Technology

1000000000	0	9017	0	4305	0	10239	0	31044	0	8981
2000000000	0	2523	0	1310	0	2387	0	23082	0	5527
2710003070	0	0	0	0	0	0	0	24	0	0
8428900010	2	163	0	0	39	909	524	735	3	861
8431390080	0	4303	0	426	0	2388	0	3592	0	4057
8456101010	0	0	0	0	6	723	1	104	3	213
101020	0	0	0	0	1	1	29	430	0	0
105000	4	10	0	0	24	136	1	20	6	8
201010	0	0	0	0	0	0	0	0	0	0
201050	1	17	0	0	0	0	0	0	0	0
205000	0	0	0	0	1	38	0	0	0	0
8477103000	1	149	5	32	3	4	1	2	0	0
106010	6	1386	29	1461	0	0	26	944	3	609
106050	16	2015	32	1419	7	56	223	11213	85	5305
200010	3	188	0	0	1	29	3	179	9	198
200050	7	2164	18	542	23	342	107	5621	1	109
300000	0	0	3	65	0	0	41	6328	1	86
400000	0	0	1	15	0	0	19	1021	1	84
510010	0	0	0	0	0	0	8	155	5	1150
510090	2	176	2	4	4	106	29	1919	1	725
590000	0	0	3	130	30	338	19	976	47	744
800000	168	1591	20	569	102	631	306	9787	192	1752
8479899040	3	497	0	0	13	182	31	2478	93	336
908040	0	402	0	29	0	664	0	2712	0	359
8537100030	0	0	0	0	8	32	139	127	5	46
9024100000	0	75	0	0	0	1044	0	56	0	647
9031100000	0	23	0	0	0	30	0	164	0	391
300000	0	35	0	0	0	598	0	186	0	1
9032810020	982	26	0	0	3450	21	1	2	29893	263
810060	0	0	23091	58	14	6	14490	86	2283	285

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 March 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	646	2812	1	98	647	2910
Bulgaria	0	0	0	[illegible]	0	0
Czechoslovakia	24	248	1	85	25	334
Denmark	63	235	33	426	96	661
East Germany	156	670	150	4	306	674
Finland	4	93	39	1218	43	1310
Hungary	1	70	0	0	1	70
Ireland	3	24	0	0	3	24
Luxembourg	0	0	0	0	0	0
Netherlands	20	706	7	216	27	922
Norway	1	12	1	79	2	91
Poland	68	975	0	0	68	975
Portugal	48	184	19	355	67	539
Romania	0	0	0	0	0	0
USSR	2	35	0	0	2	35
Yugoslavia	229	2017	6	516	235	2533
Oth Europe	24	854	6	170	30	1024
TOTAL	18180	144419	2447	49520	20627	193939
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	127	56	1	5	128	61
Mexico	8	12	180	419	188	432
Oth N & C Am.	0	0	0	0	0	0
TOTAL	601	6049	665	14881	1266	20930
SOUTH AMERICA						
Argentina	8	56	0	0	8	56
Chile	0	0	0	0	0	0
Colombia	1	15	0	0	1	15
Paraguay	0	0	0	0	0	0
Peru	1	2	0	0	1	2
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	593	4128	0	0	593	4128
OCEANIA						
Australia	44	361	3	114	47	476
New Zealand	1	5	114	143	115	148
Oth Oceania	0	0	0	0	0	0
TOTAL	45	366	117	258	162	624

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90   March 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	* 20901	3780	235	119	21136	3899
Hong Kong	382	292	2	5	384	297
India	56	535	1	18	57	553
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	55	1147	46	122	101	1269
Malaysia	0	0	1	150	1	150
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	1	68	0	0	1	68
TOTAL	197230	270718	3095	47978	200325	318696
AFRICA						
Ghana	4	8	0	0	4	8
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	1	42	18	102	19	144
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	5	50	18	102	23	152

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

A 5620-3

REPORT

NMTBA
The Association For Manufacturing Technology
Direct Dial: (703)827-5260

STATISTICAL
No. 86-90 June 27, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – APRIL 1990
(Millions of U.S. Dollars)

	Apr. 1990	Mar. 1990	Average Jan.-Mar.	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 43.6	$ 60.4	$ 57.7	$216.8	$147.5	47.0%
Imports	$155.0	$129.8	$141.9	$580.7	$596.4	(2.6%)
Balance	($111.4)	($ 69.4)	($ 84.2)	($363.9)	($448.9)	(18.9%)
METAL FORMING MACHINE TOOLS						
Exports	$ 41.9	$ 40.1	$ 38.8	$158.2	$162.8	(2.8%)
Imports	$ 39.4	$ 38.5	$ 37.6	$152.1	$193.7	(21.5%)
Balance	$ 2.5	$ 1.6	($ 1.2)	$ 6.1	($ 30.9)	N.M.
MACHINE TOOL TOTAL						
Exports	$ 85.5	$100.5	$ 96.5	$375.0	$310.3	20.9%
Imports	$194.4	$168.3	$179.5	$732.9	$790.1	(7.2%)
Balance	($108.9)	($ 67.8)	($ 83.0)	($357.9)	($479.8)	(25.4%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 28.7	$ 35.0	$ 33.3	$128.7	$ 76.4	68.5%
Imports	$113.8	$ 90.8	$ 98.0	$407.7	$409.6	(0.5%)
Balance	($ 85.1)	($ 55.8)	($ 64.7)	($279.0)	($333.2)	(16.3%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$148.0	$162.0	$150.0	$598.0	N.A.	N.A.
Imports	$180.4	$154.6	$169.0	$687.3	N.A.	N.A.
Balance	($ 32.4)	$ 7.4	($ 19.0)	($ 89.3)	N.A.	N.A.

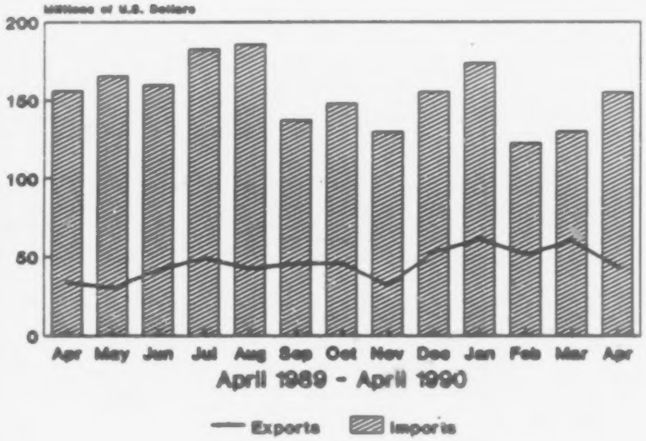
Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; N.M. = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

- U.S. machine tool exports in 1990 through April are 21% higher than last year and are on pace to exceed the record export total of $1.03 billion set in 1981.

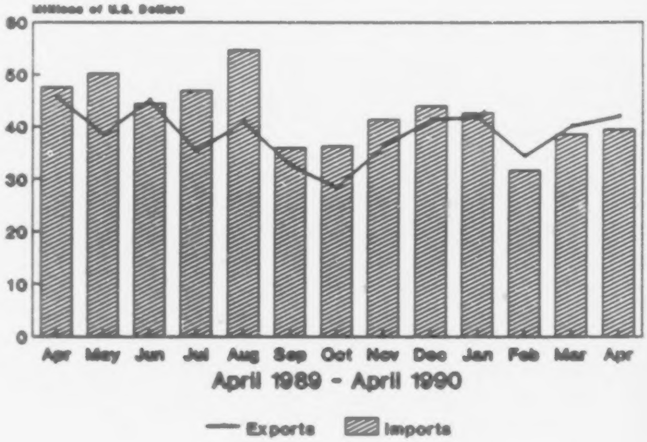
- Machine tool imports in April 1990 rose 16% over March to $194.4 million, but were still lower than the average monthly import total for 1989. Overall machine tool imports in 1990 are down 7% over 1989.

- U.S. machine tool exports to Canada in 1990 through April reached $78.9 million, up from $33.3 million in 1989. Imports from Japan through April 1990 were $361.2 million, down from $464.9 million in 1989.

U.S. MONTHLY TRADE IN MACHINE TOOLS



METAL CUTTING



METAL FORMING

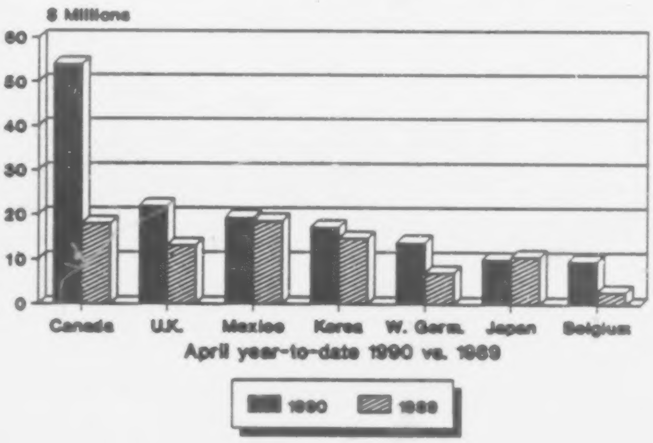
METAL CUTTING MACHINE TOOLS

Exports

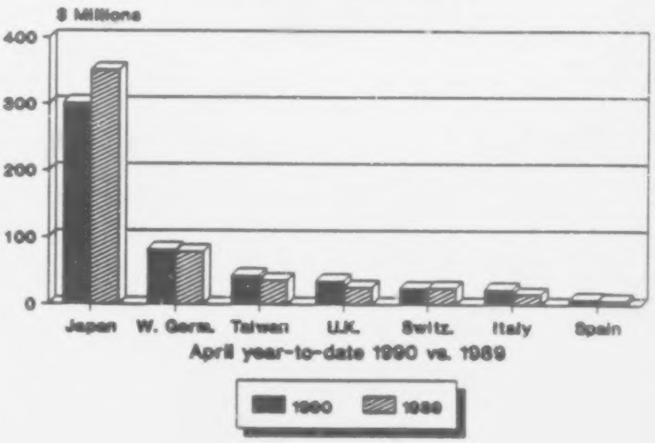
- Year-to-date U.S. metal cutting exports are up 47% over 1989. Grinding machine exports are up 30%, NC horizontal lathes exports are up 116%, and exports of machining centers are up 91% over 1989.

- Although metal cutting exports of $43.6 million in April were down 24% from the monthly average from January-March, they were still 7% higher than the monthly average for 1989.

- U.S. metal cutting exports to Chile through April 1990 were $2.0 million, compared with an annual average of $0.9 million during the 1980s. U.S. metal cutting exports to Yugoslavia reached $1.2 million in 1990 through April, compared with $0.9 million per year on average during the 1980s.



LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES

Imports

- U.S. metal cutting imports jumped 19% from March to April to $155.0 million. The average for the previous three months: $141.9 million.

- Imports of gear cutting machines so far in 1990 are up 69% in value to $16.7 million and 15% in unit terms to 184. Imports of non-NC lathes are up 38% in value to $38.0 million and 60% in unit terms to 2,871. Brazil supplied 756 of the non-NC lathes; Taiwan supplied 453.

- Metal cutting imports from Japan are down 14% from last year to $301.8 million. Imports from West Germany are up 4% to $81.8 million. Imports from the United Kingdom are up 38% to $35.6 million.

METAL FORMING MACHINE TOOLS

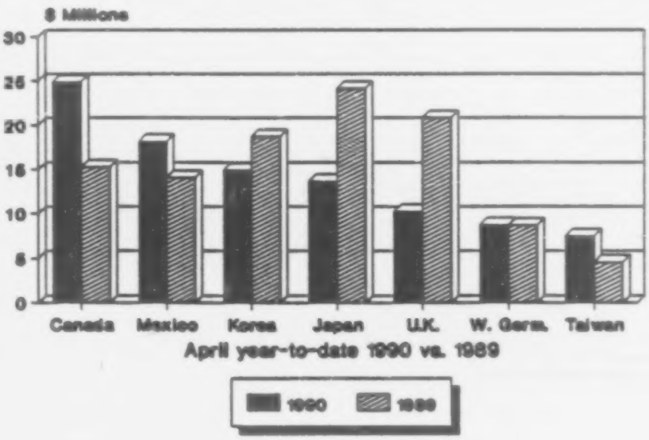
Exports

- The U.S. metal forming machine tool industry maintained its trade surplus for the third consecutive month. April exports of $41.9 million are the highest since June 1989. Exports to France are up 121% to $6.1 million.

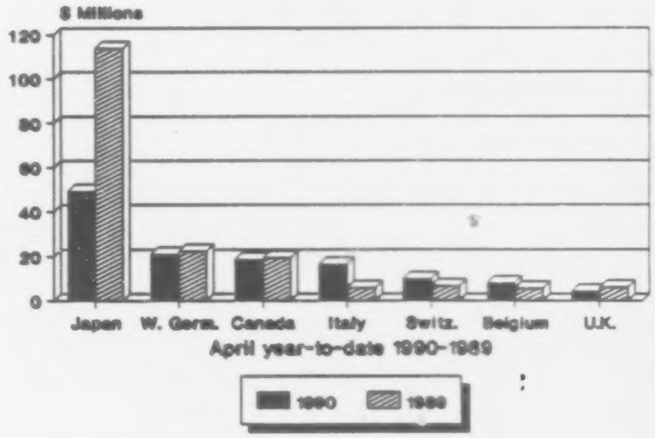
- Metal forming machine tool exports to Japan through April are roughly half of last year's total at this time, as are U.S. metal forming exports to the United Kingdom.

- Year-to-date exports of presses reached $39.9 million in April, up from $23.5 million at this time last year. The leading markets for presses so far in 1990: Mexico ($6.0 million); South Korea ($5.8 million); Canada ($4.6 million); and Taiwan ($3.2 million).

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- For the third month in a row U.S. metal forming imports failed to break $40 million. The last time this happened: January-March 1986.

- Imports of metal forming machines rose slightly in April to $39.4 million. Year-to-date imports are down 22% over last year.

- Imports of presses in 1990 through April totalled $24.4 million, versus $63.8 million last year at this time. However, unit imports of presses has increased from 693 in 1989 through April to 945 in 1990 through April.

OTHER MANUFACTURING TECHNOLOGY

Exports

- U.S. exports of machine tool parts and accessories totalled $59.8 million in April. The average for January-March: $61.5 million.

- U.S. exports of injection molding machinery jumped to $7.5 million in April, compared with an average over the previous three months of $4.1 million. So far this year the major export markets for injection molding machines are Mexico ($8.9 million) and Canada ($4.1 million).

- U.S. exports of robots were $2.6 million in April, down from $7.1 million on average for the first quarter of the year. Canada is by far the largest export market for robots at $13.2 million.

Imports

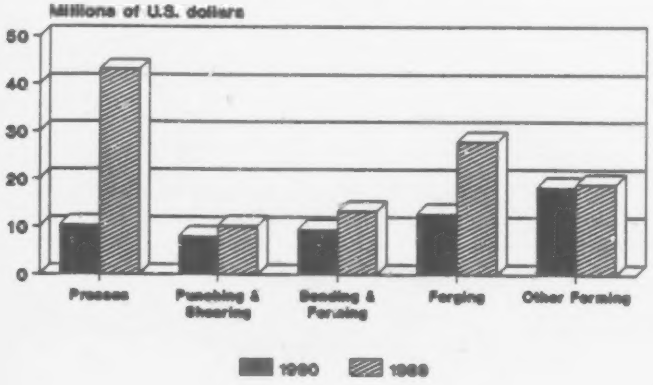
- U.S. imports of robots totalled $9.0 million in April, for a year-to-date total of $41.8 million. The largest suppliers so far in 1990: Japan ($25.4 million); West Germany ($3.7 million) and Sweden ($3.5 million).

- Imports of machine tool parts and accessories were $46.0 million in April, 28% of which came from Japan and 26% from West Germany. The year-to-date total for this category is $193.3 million (compared with U.S. exports of $244.2 million).

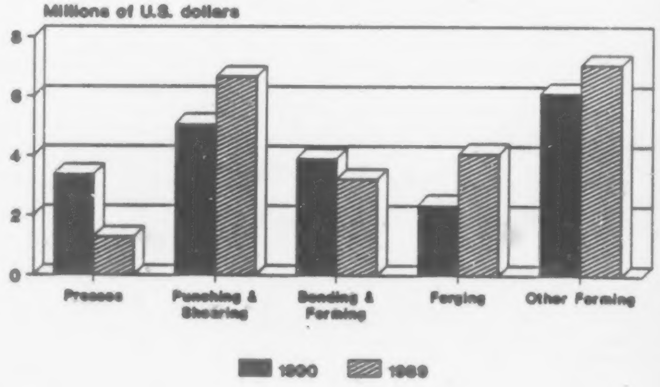
MONTHLY FOCUS

In 1990 through April, the United States has enjoyed a metal forming machine tool trade surplus, largely because of lower imports from Japan. As the charts below indicate, U.S. imports from Japan are down this year compared with last year for every major category of metal forming machines, especially presses and forging machines. Imports from West Germany are down only slightly from last year.

U.S. Imports of
Japanese Metal Forming Machines
Jan.-Apr. 1989 and 1990



U.S. Imports of
West German Metal Forming Machines
Jan.-Apr. 1989 and 1990



1990 EXPORTS

METAL CUTTING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Canada	$11,788,934	$11,582,311	1.78%	$53,997,609	$18,064,502	198.92%
U.K.	4,068,271	5,516,479	-26.25	21,964,593	13,124,502	67.36
Mexico	3,201,636	4,451,093	-28.07	19,420,837	18,621,753	4.29
Korea	1,701,195	7,342,668	-76.83	17,191,356	14,709,973	16.87
West Germany	3,168,393	5,506,602	-42.46	13,840,840	6,999,686	97.74
Japan	1,922,553	4,713,394	-59.21	10,019,495	10,566,744	-5.18
Belgium	2,657,856	3,590,394	-25.97	9,609,173	2,762,643	247.83
China	2,448,305	4,652,190	-47.37	8,603,309	11,060,313	-22.21
India	1,061,879	2,156,335	-50.76	8,340,197	3,675,378	126.92
Australia	3,125,583	848,611	268.32	7,744,072	2,866,491	170.16
Brazil	480,843	417,841	15.08	6,580,237	2,635,376	149.69
Italy	636,420	1,676,630	-62.04	5,809,793	6,010,830	-3.34
France	592,332	535,087	10.70	4,006,122	6,064,452	-33.94
USSR	0	0	NA	3,207,507	670,302	378.52
Taiwan	405,986	511,643	-20.65	2,967,842	3,178,406	-6.62
Venezuela	943,187	1,211,544	-22.15	2,316,555	3,938,973	-41.19
Switzerland	97,492	1,081,215	-90.98	2,057,250	1,669,552	23.22
Singapore	104,824	518,200	-79.77	1,933,353	2,289,242	-15.55
Spain	248,188	152,878	62.34	1,585,827	1,299,501	22.03
Netherlands	283,325	285,980	-0.93	1,282,992	2,883,907	-55.51
Thailand	67,338	729,224	-90.77	1,033,635	589,416	75.37
Malaysia	63,765	107,741	-40.82	436,794	123,170	254.63
Austria	25,315	30,700	-17.54	125,034	439,699	-71.56
Indonesia	25,000	2,767	803.51	115,636	1,100,808	-89.50

METAL FORMING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Canada	$6,455,241	$6,840,643	-5.63%	$24,887,706	$15,245,583	63.25%
Mexico	5,459,065	3,702,779	47.43	18,144,595	14,066,290	28.99
Korea	3,087,797	2,763,244	11.75	14,900,186	18,728,519	-20.44
Japan	2,804,116	3,626,451	-22.68	13,684,162	24,182,346	-43.41
U.K.	3,510,840	4,351,625	-19.32	10,304,647	20,808,002	-50.48
West Germany	1,510,578	2,102,968	-28.17	8,773,483	8,700,750	0.84
Taiwan	1,950,979	4,115,355	-52.59	7,472,391	4,533,749	64.82
China	1,475,715	1,386,632	6.42	6,893,118	5,951,550	15.82
France	1,151,399	664,983	73.15	6,103,510	2,761,205	121.05
India	278,778	1,540,043	-81.90	4,953,256	3,694,357	34.08
Italy	1,015,223	606,618	67.36	3,392,787	3,539,326	-4.14
Netherlands	804,647	521,442	54.31	2,769,475	823,896	236.14
Australia	1,648,949	552,217	198.61	2,650,432	3,873,243	-31.57
Singapore	1,167,078	122,554	852.30	2,237,956	5,793,256	-61.37
Brazil	595,200	880,468	-32.40	1,658,435	1,753,810	-5.44
Malaysia	1,327,715	159,694	731.41	1,607,641	275,997	482.48
Belgium	182,619	1,183,634	-84.57	1,456,261	681,271	113.76
Spain	481,663	100,764	378.01	1,289,811	2,223,743	-42.00
Switzerland	25,356	352,293	-92.80	972,693	835,879	16.37
Austria	8,643	40,000	-78.39	779,026	616,150	26.43
Thailand	106,510	57,730	84.50	476,507	679,272	-29.85
Venezuela	51,650	33,431	54.50	327,954	4,278,914	-92.34
Indonesia	6,969	17,230	-59.55	31,164	78,113	-60.10
USSR	0	0	NA	0	107,711	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Canada	$18,244,175	$18,422,954	-0.97%	$78,885,315	$33,310,085	136.82%
Mexico	8,660,701	8,153,872	6.22	37,565,432	32,688,043	14.92
U.K.	7,579,111	9,868,104	-23.20	32,269,240	33,932,504	-4.90
Korea	4,788,992	10,105,912	-52.61	32,091,542	33,438,492	-4.03
Japan	4,726,669	8,339,845	-43.32	23,703,657	34,749,090	-31.79
West Germany	4,678,971	7,609,570	-38.51	22,614,323	15,700,436	44.04
China	3,924,020	6,038,822	-35.02	15,496,427	17,011,863	-8.91
India	1,340,657	3,696,378	-63.73	13,293,453	7,369,735	80.38
Belgium	2,840,475	4,774,028	-40.50	11,065,434	3,443,914	221.30
Taiwan	2,356,965	4,626,998	-49.06	10,440,233	7,712,155	35.37
Australia	4,774,532	1,400,828	240.84	10,394,504	6,739,734	54.23
France	1,743,731	1,200,070	45.30	10,109,632	8,825,657	14.55
Italy	1,651,643	2,283,248	-27.66	9,202,580	9,550,156	-3.64
Brazil	1,076,043	1,298,309	-17.12	8,238,672	4,389,186	87.70
Singapore	1,271,902	640,754	98.50	4,171,309	8,082,498	-48.39
Netherlands	1,087,972	807,422	34.75	4,052,467	3,707,803	9.30
USSR	0	0	NA	3,207,507	778,013	312.27
Switzerland	122,848	1,433,508	-91.43	3,029,943	2,505,431	20.94
Spain	729,851	253,642	187.75	2,875,638	3,523,244	-18.38
Venezuela	994,837	1,244,975	-20.09	2,644,509	8,217,887	-67.82
Malaysia	1,391,480	267,435	420.31	2,044,435	399,167	412.18
Thailand	173,848	786,954	-77.91	1,510,142	1,268,688	19.03
Austria	33,958	70,700	-51.97	904,060	1,055,849	-14.38
Indonesia	31,969	19,997	59.87	146,800	1,178,921	-87.55

1990 IMPORTS

METAL CUTTING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Japan	$80,331,924	$68,437,452	17.38%	$301,849,513	$350,982,602	-14.00%
West Germany	22,817,636	13,307,866	71.46	81,847,040	78,750,488	3.93
Taiwan	11,078,443	10,612,350	4.39	42,980,509	36,270,217	18.50
U.K.	8,970,344	6,926,736	29.50	35,630,844	25,885,220	37.65
Switzerland	6,877,384	7,167,852	-4.05	24,265,872	24,379,115	-0.46
Italy	6,375,784	5,370,922	18.71	22,971,519	15,408,031	49.09
Spain	2,310,399	2,040,731	13.21	8,142,254	6,494,480	25.37
France	1,893,102	2,730,363	-30.66	7,927,742	11,403,631	-30.48
Singapore	2,078,613	1,002,239	107.40	7,773,325	4,561,504	70.41
Canada	1,455,507	1,878,625	-22.52	7,435,963	6,512,056	14.19
Korea	1,021,618	1,891,360	-45.99	6,803,310	6,084,625	11.81
Brazil	1,396,795	2,056,165	-32.07	5,451,593	2,268,260	140.34
Sweden	590,113	573,936	2.82	3,994,767	3,166,867	26.14
Belgium	52,547	355,667	-85.23	592,750	3,702,559	-83.99

METAL FORMING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Japan	$14,326,532	$16,116,359	-11.11%	$ 59,365,604	$113,885,341	-47.87%
West Germany	5,929,337	4,955,915	19.64	20,871,243	22,329,261	-6.53
Canada	4,163,542	4,675,977	-10.96	18,620,623	19,311,203	-3.58
Italy	5,343,254	2,271,645	135.22	16,551,583	5,767,070	187.00
Switzerland	2,730,665	4,065,686	-32.84	9,680,475	6,536,594	48.10
Belgium	2,417,659	960,028	151.83	7,987,422	5,637,009	41.70
U.K.	386,131	1,703,875	-77.34	4,333,964	5,980,630	-27.53
Taiwan	1,773,972	545,204	225.38	4,226,927	3,092,918	36.66
Sweden	521,762	758,265	-31.19	2,988,021	3,136,714	-4.74
Spain	608,813	404,048	50.68	1,509,388	501,807	200.79
France	12,466	78,447	-84.11	380,374	761,894	-50.08
Korea	55,637	62,580	-11.09	119,528	37,800	216.21
Singapore	44,315	8,790	404.15	53,105	516,997	-89.73
Brazil	0	0	NA	0	11,025	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Japan	$94,658,456	$84,553,811	11.95%	$361,215,117	$464,867,943	-22.30%
West Germany	28,746,973	18,263,781	57.40	102,718,283	101,079,749	1.62
Taiwan	12,852,415	11,157,554	15.19	47,207,436	39,363,135	19.93
U.K.	9,356,475	8,630,611	8.41	39,964,808	31,865,850	25.42
Italy	11,719,038	7,642,567	53.34	39,523,102	21,175,101	86.65
Switzerland	9,608,049	11,233,538	-14.47	33,946,347	30,915,709	9.80
Canada	5,619,049	6,554,602	-14.27	26,056,586	25,823,259	0.90
Spain	2,919,212	2,444,779	19.41	9,651,642	6,996,287	37.95
Belgium	2,470,206	1,315,695	87.75	8,580,172	9,339,568	-8.13
France	1,905,568	2,808,810	-32.16	8,308,116	12,165,525	-31.71
Singapore	2,122,928	1,011,029	109.98	7,826,430	5,078,501	54.11
Sweden	1,111,875	1,332,201	-16.54	6,982,788	6,303,581	10.77
Korea	1,077,255	1,953,940	-44.87	6,922,838	6,122,425	13.07
Brazil	1,396,795	2,056,165	-32.07	5,451,593	2,279,285	139.18

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	$12,224,015	4,543	$10,935,156	5,847	$11,979,000	4,803	$14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	$103,070,069	5,993	$85,972,344	7,953	$100,460,308	6,329	$85,468,146

PRODUCT TYPES	APR '90 Y-T-D TOTALS		APRIL 1989		APR '89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	18,092	$50,067,369	5,141	$12,327,284	19,511	$47,759,592
Boring Machines	42	5,838,849	17	950,038	135	7,356,574
Drilling Machines	319	6,740,971	27	1,314,012	77	4,215,257
Gear Cutting Machines	81	13,106,081	6	849,917	72	10,543,901
Grinding Machines	1,264	48,960,791	317	9,161,095	1,345	37,574,685
Horizontal Lathes NC	152	17,812,088	35	3,253,292	87	8,230,832
Vertical Lathes NC	26	2,377,514	0	0	4	478,569
Lathes Non-NC	247	6,805,835	43	1,613,647	174	4,847,526
Milling Machines	184	15,116,615	46	1,805,710	231	12,002,529
Machining Centers	175	26,609,372	28	3,534,392	85	13,943,727
Station Type Machines	48	18,334,599	5	929,962	23	8,069,576
Other Metal Cutting	1,259	30,130,847	161	4,263,085	893	16,700,417
Punching & Shearing Machines	494	23,559,935	105	3,794,853	405	19,536,450
Bending & Forming Machines	567	21,140,861	107	4,294,467	389	15,358,253
Presses	853	39,885,249	116	6,281,018	483	23,484,622
Forging Machines	99	13,870,082	38	4,463,652	231	13,160,557
Other Metal Forming	1,044	34,613,809	467	20,849,780	1,582	67,020,979
TOTAL	24,946	$374,970,867	6,659	$79,686,204	25,727	$310,284,046

1990 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE MAR 90' - APR 90'		% CHANGE APR 89' - APR 90'		% CHANGE YTD 89' - YTD 90'	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-17.86%	24.63%	-6.57%	21.11%	-7.27%	4.83%
Boring Machines	-38.46	28.63	-52.94	105.69	-68.89	-20.63
Drilling Machines	-34.04	-59.29	129.63	-21.50	314.29	59.92
Gear Cutting Machines	-76.47	-90.22	-33.33	-59.65	12.50	24.30
Grinding Machiens	-33.33	-15.13	-3.47	16.65	-6.02	30.30
Horizontal Lathes NC	11.43	97.77	11.43	61.00	74.71	116.41
Vertical Lathes NC	-68.75	-70.64	NA	NA	550.00	396.80
Lathes Non-NC	-14.47	27.44	51.16	46.52	41.95	40.40
Milling Machiens	-57.33	-42.75	-30.43	67.17	-20.35	25.95
Machining Centers	-48.00	-47.59	-7.14	26.67	105.88	90.83
Station Type Machines	-75.00	-87.08	-60.00	-35.91	108.70	127.21
Other Metal Cutting	-26.10	-33.10	67.08	45.98	40.99	80.42
Punching & Shearing Machines	-28.39	-32.21	5.71	-0.93	21.98	20.59
Bending & Forming Machines	38.28	19.14	65.42	49.04	45.76	37.65
Presses	-30.04	6.04	64.66	75.41	76.60	69.84
Forging Machines	-16.13	-5.33	-31.58	-28.35	-57.14	5.39
Other Metal Forming	-34.94	-5.20	-56.53	-52.19	-34.01	-48.35
TOTAL	-20.42	-14.92	-4.96	7.26	-3.04	20.85

1990 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	$15,101,348	66,011	$10,754,274	64,814	$11,170,439	83,714	$12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	$216,118,098	69,614	$154,026,349	68,854	$168,324,455	88,078	$194,391,971

PRODUCT TYPES	APR '90 Y-T-D TOTALS		APRIL 1989		APR '89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	294,704	$49,322,816	53,299	$12,791,125	173,858	$47,050,603
Boring Machines	185	9,138,945	62	2,622,059	314	25,104,571
Drilling Machines	497	15,671,713	173	9,029,944	616	33,078,963
Gear Cutting Machines	184	16,730,865	24	1,627,946	160	9,890,409
Grinding Machines	2,813	87,035,265	718	27,286,695	2,504	84,212,111
Horizontal Lathes NC	1,188	108,776,636	296	26,315,649	1,347	123,794,159
Vertical Lathes NC	48	7,874,758	19	1,935,853	47	5,171,098
Lathes Non-NC	2,871	37,958,353	484	7,059,595	1,795	27,422,823
Milling Machines	1,907	26,950,563	604	9,709,582	1,765	45,016,718
Machining Centers	1,244	153,347,991	318	30,857,850	1,101	119,033,241
Station Type Machines	81	18,719,145	16	11,494,843	64	18,320,444
Other Metal Cutting	1,739	57,893,370	392	16,945,014	1,658	66,203,734
Punching & Shearing Machines	581	23,552,541	128	4,809,075	555	23,947,362
Bending & Forming Machines	762	26,055,318	181	9,461,859	757	31,141,366
Presses	945	24,366,031	111	9,382,988	693	63,768,352
Forging Machines	376	23,826,637	95	13,948,522	595	35,065,219
Other Metal Forming	949	45,639,926	471	8,290,431	2,628	31,900,155
TOTAL	311,074	$732,860,873	57,391	$203,569,030	190,457	$790,121,328

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE MAR 90' - APR 90'		% CHANGE APR 89' - APR 90'		% CHANGE YTD 89' - YTD 90'	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	29.16%	10.08%	57.06%	-3.86%	69.51%	4.83%
Boring Machines	14.63	-14.94	-24.19	-30.54	-41.08	-63.60
Drilling Machines	-13.74	-24.58	-34.68	-60.18	-19.32	-52.62
Gear Cutting Machines	-54.05	13.74	41.67	157.33	15.00	69.16
Grinding Machines	1.94	8.65	2.65	-22.85	12.34	3.35
Horizontal Lathes NC	-3.10	5.85	-5.07	-2.28	-11.80	-12.13
Vertical Lathes NC	-40.00	-14.55	-68.42	-24.84	2.13	52.28
Lathes Non-NC	20.20	0.38	101.65	43.20	59.94	38.42
Milling Machines ·	22.04	72.81	-0.99	-20.77	8.05	-40.13
Machining Centers	27.41	58.12	8.18	58.73	12.99	28.83
Station Type Machines	173.33	121.55	156.25	-28.73	26.56	2.18
Other Metal Cutting	11.55	-18.07	8.42	-25.90	4.89	-12.55
Punching & Shearing Machines	-28.08	-53.73	14.06	-18.04	4.68	-1.65
Bending & Forming Machines	11.52	-14.18	17.68	-33.18	0.66	-16.33
Presses	38.00	118.10	24.32	1.51	36.36	-61.79
Forging Machines	-33.65	-29.75	-27.37	-72.00	-36.81	-32.05
Other Metal Forming	-4.39	20.15	-58.39	57.29	-63.89	43.07
TOTAL	27.92	15.49	53.47	-4.51	63.33	-7.25

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

RELEASED: June 27, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	116	4330	26	1792
8462100030	Headers and upsetters, including cold headers	17	6696	3	1225
100050	Forging or die stamping machines, and hammers, n.e.c.	82	7174	23	1974
210080	Bending, folding, straight. or flat. mach., incl presses, NC	105	9085	31	2267
290030	Press brakes, non-NC	79	2041	30	865
290040	Bending rolls, non-NC	25	714	8	240
290050	Bending, folding, straight., or flat., n.e.c., non-NC	358	9301	108	3029
310080	Shearing machines, NC	26	2313	4	129
390050	Shearing machines, non-NC	133	2929	32	537
410080	Punching or notching mach., incl. comb. punch & shear, NC	64	11730	9	1961
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	271	6588	66	1133
910060	Hydraulic presses, NC	26	2032	12	761
910090	Hydraulic presses, non-NC	249	12793	79	4130
990030	Presses, n.e.c., NC	41	4416	15	2425
990040	Presses, mechanical, non-NC	41	4425	1	279
990060	Presses, n.e.c., non-NC	496	16219	84	3423
8463100080	Draw benches for bars, tubes, profiles, wire or the like	60	1390	12	323
200080	Thread rolling machines	24	974	12	586
300080	Machines for working wire	198	8156	62	1684
900080	Metal forming machine tools, n.e.c.	646	19763	91	5583
9800000002	Used or rebuilt machine tools	1111	21849	271	6646
9900000002	Machine tools valued at less than $2,500	4098	3234	1150	881

	UNITS	$000	UNITS	$000
Forming Total			2129	41872
Y-T-D Forming Total	8266	158153		
NC Y-T-D Forming Total	262	29575		
Cutting and Forming Totals:				
Monthly Total			6329	85468
Y-T-D Total	24946	374971		
NC Y-T-D Total*	950	128692		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	244220	0	59841
2000000000	Parts for working rubber or plastics - heading 8477	0	95586	0	22045
2710003070	Quenching or cutting oils	0	7494	0	5697
8428900010	Industrial robots for lifting, handling, loading or unload	88	1592	24	252
8431390090	Parts industrial robots, handling and loading - heading 8428	0	25585	0	8122
8456100000	Laser, light or photon beam for working any material	228	12982	65	4021
200000	Ultrasonic process for working any material	31	772	9	225
8477106010	Injection molding mach., for rubber or oth. thermosetting	63	5013	25	1915
106070	Injection molding mach. for thermoplastics	119	14698	36	5634
200010	Extruders for rubber or other thermosetting materials	133	5241	38	1168
200050	Extruders for processing thermoplastics	306	14161	88	5680
300000	Blow molding machines	135	11602	11	3520
400000	Vacuum-molding and other thermoforming machines	4138	5921	87	744
510010	Machines for molding or retreading pneumatic tires	264	6793	62	1603
510090	Machines for molding or otherwise forming inner tubes	125	8132	15	296
590000	Machines for molding or otherwise forming n.e.c.	449	6869	125	2243
800000	Machines for working rubber or plastics n.e.c.	1314	34338	235	7568
8479899040	Industrial robots, n.e.c.	2269	22337	339	2374
908040	Industrial robot parts	0	13202	0	1462
8537100030	Numerical controls for controlling machine tools	746	10520	166	2317
9024100000	Machines and appliances for testing metals	0	24337	0	6378
9031100000	Machines for balancing mechanical parts	0	11203	0	1696
300000	Profile projectors	0	2385	0	396
9032810040	Industrial process control instr., hydraulic or pneumatic	212978	13000	46286	2843

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	2	626
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	2	293
210080	11	1221	0	0	0	0	1	36	5	432
290030	0	0	0	0	0	0	6	251	18	429
290040	0	0	0	0	0	0	0	0	4	82
290050	4	85	0	0	0	0	1	18	55	665
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	9	146	0	0	6	54
410080	0	0	0	0	0	0	0	0	3	570
490050	4	25	0	0	0	0	4	56	18	169
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	2	184
990030	0	0	0	0	0	0	0	0	10	1557
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	2	21
8463100080	0	0	0	0	2	30	1	4	1	61
200080	0	0	0	0	0	0	0	0	2	33
300080	2	45	0	0	0	0	2	61	10	178
900080	3	71	0	0	0	0	5	123	9	50
9800000002	3	165	0	0	0	0	2	40	70	884
9900000002	39	37	10	9	7	6	9	7	172	169
Month Tot	66	1649	10	9	18	183	31	595	391	6455
Y-T-D Tot	169	2650	34	779	88	1456	238	1658	1427	24888
NC YTD Tot	15	1381	0	0	0	0	6	438	62	7932
C&F Month	351	4775	31	34	66	2840	43	1076	883	18244
C&F Y-T-D	1076	10395	100	904	309	11065	464	8239	3420	78885
C&F NC YTD*	24	5650	1	23	71	8525	12	1584	244	40527
Other Manufacturing Technology										
1000000000	0	1927	0	104	0	666	0	391	0	13126
2000000000	0	304	0	24	0	450	0	506	0	7007
2710003070	0	64	0	5	0	5	0	0	0	104
8428900010	0	0	0	0	0	0	0	0	7	19
8431390090	0	206	0	24	0	64	0	1881	0	1736
8456100000	0	0	0	0	3	63	0	0	2	234
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	28
106070	0	0	3	249	0	0	1	85	12	2017
200010	0	0	0	0	0	0	0	0	14	409
200050	1	600	0	0	1	200	0	0	33	839
300000	0	0	0	0	0	0	0	0	1	347
400000	1	5	0	0	0	0	0	0	1	10
510010	3	371	0	0	0	0	0	0	1	73
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	2	35	1	59	7	398
800000	14	625	0	0	0	0	4	3	75	1787
8479899040	1	5	0	0	1	60	0	0	141	847
908040	0	6	0	0	0	0	0	0	0	886
8537100030	10	96	0	0	1	11	0	0	1	9
9024100000	0	32	0	54	0	27	0	16	0	753
9031100000	0	119	0	0	0	0	0	0	0	493
300000	0	27	0	0	0	0	0	0	0	3
9032810040	841	105	854	43	1353	77	0	0	2863	220

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	956	3	4	5	51	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	1	37
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	1	32	0	0	0	0	0	0	0	0
290050	4	269	4	97	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	4	133	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	1	141	4	45	1	7	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	13	0	0	0	0	1	10
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	20	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	5	65	0	0	0	0	4	146
900080	1	62	1	555	8	76	0	0	2	808
9800000002	0	0	12	263	4	83	0	0	0	0
9900000002	26	23	12	13	4	3	0	0	22	14
Month Tot	37	1476	39	1151	26	279	1	7	30	1015
Y-T-D Tot	75	6893	192	6104	233	4953	6	31	96	3393
NC YTD Tot	3	2629	18	2465	0	0	0	0	3	589
C&F Month	109	3924	148	1744	65	1341	2	32	148	1652
C&F Y-T-D	207	15496	731	10110	401	13293	58	147	871	9203
C&F NC YTD*	25	8119	61	5365	10	3031	0	0	4	628

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	174	0	1492	0	780	0	46	0	1811
2000000000	0	45	0	142	0	196	0	31	0	217
2710003070	0	14	0	0	0	0	0	44	0	10
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	126	0	75	0	44	0	0	0	8
8456100000	3	73	3	146	0	0	0	0	2	49
200000	0	0	1	15	0	0	0	0	1	21
8477106010	0	0	0	0	0	0	0	0	1	56
106070	0	0	2	63	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	23	708	4	91	0	0	0	0	0	0
300000	0	0	3	60	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	1	32	0	0	0	0	4	228
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	15	225	3	3	0	0	12	176
800000	2	1271	0	0	0	0	0	0	1	288
8479899040	0	0	17	202	1	9	0	0	44	263
908040	0	0	0	45	0	0	0	0	0	15
8537100030	0	0	22	314	0	0	0	0	9	119
9024100000	0	29	0	202	0	28	0	0	0	29
9031100000	0	0	0	10	0	286	0	0	0	3
300000	0	0	0	51	0	0	0	0	0	11
9032810040	366	18	2926	173	308	15	0	0	4338	279

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	2	165	0	0	0	0	0	0	0	0
100050	11	763	1	45	0	0	4	215	0	0
210080	0	0	2	95	0	0	5	137	0	0
290030	0	0	0	0	0	0	3	58	0	0
290040	0	0	0	0	0	0	1	50	0	0
290050	4	82	12	275	0	0	3	128	0	0
310080	0	0	0	0	0	0	0	0	4	129
390050	0	0	1	24	2	36	2	10	0	0
410080	0	0	0	0	0	0	1	79	2	426
490050	10	161	3	35	0	0	8	93	0	0
910060	0	0	0	0	0	0	7	369	0	0
910090	0	0	2	52	0	0	35	1297	1	128
990030	4	678	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	15	434	6	173	0	0	53	497	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	1	337	0	0
300080	4	67	0	0	0	0	8	193	1	102
900080	5	360	1	5	2	1279	10	213	2	16
9800000002	0	0	35	2352	1	13	104	1649	0	0
9900000002	228	94	34	32	0	0	131	134	15	3
Month Tot	283	2804	97	3088	5	1328	376	5459	25	805
Y-T-D Tot	599	13684	234	14900	26	1608	2042	18145	100	2769
NC YTD Tot	13	2580	11	1084	2	65	38	2695	16	1486
C&F Month	460	4727	200	4789	11	1391	964	8661	34	1088
C&F Y-T-D	1846	23704	823	32092	93	2044	5129	37565	303	4052
C&F NC YTD*	51	6839	54	7968	2	65	107	6799	21	1712

Other Manufacturing Technology

1000000000	0	5008	0	1462	0	273	0	3483	0	493
2000000000	0	940	0	196	0	61	0	1584	0	232
2710003070	0	3	0	11	0	0	0	27	0	28
8428900010	1	47	0	0	0	0	0	0	0	0
8431390090	0	93	0	59	0	5	0	1067	0	33
8456100000	15	409	0	0	2	114	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	23	1832	0	0
106070	2	1385	0	0	0	0	8	796	0	0
200010	0	0	0	0	0	0	5	308	0	0
200050	0	0	0	0	1	21	8	416	2	74
300000	2	2397	0	0	0	0	3	498	0	0
400000	77	484	0	0	0	0	7	236	0	0
510010	7	168	0	0	2	44	6	139	0	0
510090	2	124	0	0	0	0	8	3	0	0
590000	12	177	2	32	0	0	20	160	5	85
800000	1	17	0	0	5	25	41	2594	0	0
8479899040	22	166	41	242	0	0	7	44	4	22
908040	0	20	0	8	0	6	0	4	0	0
8537100030	1	16	4	60	1	13	1	22	0	0
9024100000	0	1087	0	2191	0	21	0	97	0	9
9031100000	0	26	0	268	0	0	0	135	0	0
300000	0	190	0	0	0	0	0	0	0	0
9032810040	754	79	3076	158	50	3	4174	127	5290	274

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	3	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	2	160	0	0	1	400	0	0
210080	3	151	0	0	0	0	2	119	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	5	3	665	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	6	0	0
410080	1	110	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	0	0
910060	0	0	2	83	0	0	0	0	1	68
910090	0	0	0	0	0	0	1	11	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	3	513	0	0
8463100080	0	0	1	22	0	0	0	0	0	0
200080	0	0	9	216	0	0	0	0	0	0
300080	2	111	0	0	0	0	1	25	0	0
900080	0	0	0	0	0	0	5	163	0	0
9800000002	6	751	0	0	1	20	4	39	7	39
9900000002	52	41	0	0	0	0	12	10	0	0
Month Tot	65	1167	14	482	2	25	33	1951	8	107
Y-T-D Tot	165	2238	28	1290	105	973	152	7472	34	477
NC YTD Tot	4	261	3	115	1	30	17	1363	1	68
C&F Month	120	1272	70	730	43	123	113	2357	28	174
C&F Y-T-D	801	4171	154	2876	301	3030	476	10440	84	1510
C&F NC YTD*	14	781	20	566	3	449	29	2173	3	190

Other Manufacturing Technology

1000000000	0	1433	0	282	0	536	0	992	0	99
2000000000	0	313	0	461	0	65	0	171	0	103
2710003070	0	84	0	0	0	5	0	100	0	3
8428900010	1	15	0	0	0	0	0	0	0	0
8431390090	0	62	0	0	0	0	0	0	0	0
8456100000	0	0	0	0	0	0	15	1941	0	0
200000	0	0	5	132	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	1	550	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	1	183	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	1	9	0	0	0	0	0	0
510010	0	0	0	0	2	3	0	0	0	0
510090	0	0	0	0	0	0	5	169	0	0
590000	0	0	2	15	0	0	0	0	0	0
800000	6	152	0	0	0	0	1	167	0	0
8479899040	1	6	0	0	5	94	0	0	0	0
908040	0	25	0	30	0	89	0	3	0	0
8537100030	1	14	0	0	0	0	0	0	1	10
9024100000	0	33	0	6	0	71	0	34	0	7
9031100000	0	32	0	0	0	5	0	6	0	3
300000	0	12	0	0	0	0	0	57	0	0
9032810040	1494	218	917	49	127	9	123	49	4861	24

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	14	0	0	0	0	0	0	13	138
8462100030	0	0	0	0	0	0	0	0	1	1060
100050	0	0	0	0	0	0	0	0	1	61
210080	2	77	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	3	126
290040	0	0	0	0	0	0	0	0	2	76
290050	1	20	0	0	1	35	9	567	6	117
310080	0	0	0	0	0	0	0	0	0	0
390050	3	47	0	0	0	0	2	34	2	47
410080	2	776	0	0	0	0	0	0	0	0
490050	3	37	0	0	0	0	4	56	6	308
910060	2	240	0	0	0	0	0	0	0	0
910090	13	394	0	0	0	0	3	19	20	2022
990030	0	0	0	0	0	0	0	0	1	190
990040	0	0	0	0	0	0	0	0	1	279
990060	0	0	0	0	0	0	1	197	3	1567
8463100080	5	163	0	0	0	0	2	42	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	15	0	0	0	0	11	289	11	388
900080	17	1502	0	0	0	0	13	206	7	95
9800000002	5	167	0	0	0	0	4	19	13	164
9900000002	49	59	0	0	23	16	180	82	125	129
Month Tot	104	3511	0	0	24	52	229	1511	215	6765
Y-T-D Tot	543	10305	0	0	69	328	623	8773	988	22386
NC YTD Tot	15	2622	0	0	1	28	3	382	30	1362
C&F Month	1138	7579	0	0	48	995	484	4679	770	11243
C&F Y-T-D	2418	32269	14	3208	385	2645	1530	22614	2952	35014
C&F NC YTD*	85	16830	0	0	2	138	28	4288	79	6445

Other Manufacturing Technology

1000000000	0	8263	0	276	0	865	0	5638	0	10221
2000000000	0	2044	0	543	0	445	0	1874	0	4091
2710003070	0	3	0	0	0	5	0	12	0	5171
8428900010	1	15	0	0	0	0	2	126	12	29
8431390090	0	375	0	0	0	18	0	40	0	2204
8456100000	9	314	0	0	0	0	2	446	9	233
200000	0	0	0	0	0	0	2	57	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	1	76	6	413
200010	0	0	0	0	0	0	0	0	19	451
200050	2	51	0	0	0	0	3	300	9	2196
300000	0	0	0	0	0	0	0	0	2	218
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	1	74	35	472
510090	0	0	0	0	0	0	0	0	0	0
590000	6	79	0	0	0	0	6	156	32	642
800000	7	111	0	0	0	0	26	199	52	329
8479899040	0	0	0	0	0	0	51	360	3	54
908040	0	213	0	0	0	27	0	71	0	15
8537100030	63	886	0	0	0	0	16	226	35	522
9024100000	0	588	0	0	0	0	0	462	0	602
9031100000	0	19	0	0	0	5	0	13	0	271
300000	0	0	0	0	0	0	0	0	0	45
9032810040	4851	457	300	4	759	68	1878	104	3783	289

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
April 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	5	33	0	0	5	33
Denmark	4	325	2	42	6	366
East Germany	0	0	1	279	1	279
Finland	23	6	6	80	29	85
Greece	0	0	6	1667	6	1667
Hungary	0	0	6	5	6	5
Iceland	0	0	0	0	0	0
Ireland	2	69	4	44	6	113
Luxembourg	1	5	0	0	1	5
Norway	10	24	0	0	10	24
Poland	0	0	1	1060	1	1060
Portugal	0	0	1	28	1	28
Romania	0	0	0	0	0	0
Sweden	43	594	15	22	58	617
Turkey	3	27	16	12	19	39
Yugoslavia	1	245	1	18	2	263
Oth Europe	0	0	4	3	4	3
TOTAL	1783	13105	534	11949	2317	25054
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	3	3	3	3
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	3	226	5	20	8	246
Dominican Rep	12	104	53	212	65	317
El Salvador	0	0	0	0	0	0
Guatemala	2	6	0	0	2	6
Haiti	3	9	2	22	5	31
Honduras	9	24	5	283	14	307
Jamaica	2	4	1	9	3	13
Panama	12	7	3	61	15	69
Trinidad	0	0	1	42	1	42
Oth N & C Am.	6	7	0	0	6	7
TOTAL	1129	15378	840	12566	1969	27944
SOUTH AMERICA						
Argentina	4	285	3	3	7	288
Bolivia	1	6	0	0	1	6
Chile	13	1240	14	504	27	1744
Colombia	26	44	12	253	38	297
Ecuador	1	32	0	0	1	32
Paraguay	0	0	0	0	0	0
Peru	18	94	0	0	18	94
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	99	3125	84	1406	183	4531
OCEANIA						
New Zealand	1	8	1	193	2	201
Oth Oceania	4	24	1	22	5	45
TOTAL	290	3157	68	1863	358	5021

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
April 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	210	477	17	65	227	542
Iran	0	0	0	0	0	0
Iraq	0	0	13	448	13	448
Israel	13	31	5	117	18	148
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	4	7	0	0	4	7
Pakistan	3	62	0	0	3	62
Philippines	30	62	1	21	31	83
Qatar	0	0	0	0	0	0
Saudi Arabia	15	21	7	1199	22	1220
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	0	0	0	0	0	0
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	828	8461	598	14055	1426	22516
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	0	0	1	28	1	28
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	43	89	0	0	43	89
South Africa	27	65	4	3	31	68
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	1	217	0	0	1	217
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	71	371	5	31	76	402

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. EXPORTS
Metal Cutting Machine Tools - April 90

RELEASED: June 27, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	33	2423	6	461
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	31	5769	8	1332
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	8	1786	1	165
100035	Horiz. mach. ctrs., ATC	18	5420	7	1727
100045	Mach. ctrs., n.e.c.	118	13635	10	1252
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	6	2368	2	596
300010	Multi-station transfer machines, NC	6	9872	0	0
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	13	3378	6	2267
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	114	8487	26	2095
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	15	2507	6	762
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	10	3440	1	114
190030	Horiz. engine or toolroom lathes, non-NC	49	891	19	315
190050	Automatic bar and/or chucking mach., single spindle, non-NC	2	127	1	24
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	27	1233	2	135
190090	Horiz. lathes, n.e.c., non-NC	125	1679	23	290
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	12	611	1	110
915070	Vertical lathes, excl. VTL's, n.e.c., NC	12	1450	4	152
991050	Vertical turret lathes, non-NC	7	137	2	60
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	37	2739	18	1540
8459100000	Way-type unit head machines	14	1957	0	0
210080	Other drilling machines, NC	44	4019	7	326
290040	Drilling machines, multiple spindle, non-NC	10	430	1	21
290050	Drilling machines, radial, non-NC	15	113	3	28
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	33	748	8	284
290090	Drilling machines, n.e.c., non-NC	217	1431	43	373
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	83	0	0
310070	Boring-milling mach., n.e.c., NC	4	186	1	54
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	1	46	1	46
400040	Boring machines, vertical, NC	1	689	0	0
400050	Boring machines, vertical, non-NC	18	254	3	32
400070	Boring machines, n.e.c., NC	7	2536	1	1770
400080	Boring machines, n.e.c., non-NC	7	476	2	52
510080	Milling machines, knee type, NC	7	440	3	218
590030	Milling machines, knee type, non-NC	37	1088	10	302
610080	Milling machines, excl. knee type, n.e.c., NC	28	8794	8	2196
690050	Milling machines, profile, dup., or die sinking, non-NC	21	496	2	158
690070	Milling machines, bed type, non-NC	0	0	0	0
690090	Milling machines, n.e.c., non-NC	91	4299	9	145
700020	Threading or tapping machines, n.e.c., NC	11	635	2	112
700080	Threading or tapping machines, n.e.c., non-NC	123	1452	33	332
8460110080	Flat surface grinding mach., NC	19	1943	6	1417
190010	Flat surface grinding mach., recip.-table type, non-NC	26	491	5	92
190050	Flat surface grinding mach., n.e.c., non-NC	16	2457	3	450
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	39	12701	12	3673
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	12	1933	1	64
290030	Grinding mach., internal cylindrical, non-NC	17	1995	3	558
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	148	6195	26	860
310080	Sharpening machines (tool & cutter grinding), NC	11	1168	3	950
390050	Sharpening machines (tool & cutter grinding), non-NC	343	7632	116	918
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	263	6430	47	598
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	5	741	1	49
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	365	5274	83	1059
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	125	4476	24	1704
200010	Shaping or slotting machines, NC	3	87	1	14
200090	Shaping or slotting machines, non-NC	19	534	3	51
300060	Broaching machines, NC	10	1139	0	0
300080	Broaching machines, non-NC	11	1041	1	445
401050	Gear hobbers	8	838	0	0
401070	Gear shapers	16	2944	0	0
401090	Gear cutting machines, n.e.c.	24	6994	1	127
405060	Gear grinding or finishing machines	33	2329	3	216
500050	Sawing or cutting-off machines, NC	68	1845	19	294
500090	Sawing or cutting-off machines, non-NC	528	7424	114	1264
9000000001	Metal cutting machine tools, n.e.c.	327	8964	66	1546
9800000001	Used or rebuilt machine tools	1520	18283	412	5551
9900000001	Machine tools valued at less than $2,500	11363	6702	2970	1851
	Cutting Total			4200	43597
	Y-T-D Cutting Total	16680	216818		
	NC Y-T-D Cutting Total*	688	99117		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - April 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	4	397
8457100015	0	0	0	0	1	114	0	0	5	929
100025	0	0	0	0	0	0	0	0	1	165
100035	0	0	0	0	3	713	0	0	1	240
100045	0	0	0	0	0	0	0	0	2	103
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	1	1550	0	0	0	0	0	0	3	561
110030	0	0	0	0	16	1217	0	0	0	0
110050	0	0	0	0	2	208	0	0	2	273
110090	0	0	0	0	0	0	0	0	1	114
190030	0	0	0	0	0	0	0	0	4	110
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	57
190090	0	0	0	0	0	0	0	0	7	138
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	56
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	35	0	0
290040	0	0	0	0	0	0	0	0	1	21
290050	0	0	0	0	0	0	0	0	2	12
290070	0	0	0	0	0	0	0	0	3	16
290090	0	0	0	0	0	0	1	60	24	156
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	46
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	2	20
400070	0	0	0	0	0	0	0	0	1	1770
400080	0	0	0	0	0	0	0	0	1	26
510080	0	0	0	0	0	0	0	0	3	218
590030	4	144	0	0	0	0	0	0	6	157
610080	1	1096	0	0	0	0	0	0	1	46
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	17	1	7
700020	0	0	0	0	0	0	0	0	1	79
700080	0	0	0	0	1	87	0	0	13	150
8460110080	0	0	0	0	0	0	0	0	1	1013
190010	0	0	0	0	0	0	0	0	4	81
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	4	2017
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	8	493
310080	0	0	0	0	0	0	0	0	1	202
390050	0	0	0	0	0	0	0	0	34	347
400060	0	0	0	0	0	0	0	0	0	0
400080	6	38	1	5	0	0	0	0	7	143
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	1	7	17	159
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	3	111
500090	1	3	0	0	0	0	0	0	24	191
9000000001	0	0	0	0	0	0	0	0	23	181
9800000001	4	106	2	9	7	275	3	358	64	713
9900000001	268	189	18	12	18	44	5	3	209	268
Month Tot	285	3126	21	25	48	2658	12	481	492	11789
Y-T-D Tot	907	7744	66	125	221	9609	226	6580	1993	53998
NC YTD Tot*	9	4268	1	23	71	8525	6	1145	182	32595

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - April 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	223	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	1	66	0	0	0	0	0	0
110030	1	115	2	309	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	4	61	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	25	8	388
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	6	40	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	2	823	1	41	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	2	502	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	7
310080	0	0	0	0	0	0	0	0	0	0
390050	49	319	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	5	100	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	6	1	6	0	0	4	59
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	445	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	3	8	0	0	1	10	0	0	1	21
9000000001	1	15	0	0	0	0	0	0	0	0
9800000001	6	620	7	61	15	269	0	0	1	92
9900000001	4	3	93	49	13	11	0	0	103	69
Month Tot	72	2448	109	592	39	1062	1	25	118	636
Y-T-D Tot	132	8603	539	4006	168	8340	52	116	775	5810
NC YTD Tot*	22	5490	43	2900	10	3031	0	0	1	39

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - April 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	31	1	33
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	480	0	0	3	185	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	132	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	2	131	0	0	0	0	3	160
110050	0	0	1	64	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	6	94	0	0
190050	0	0	0	0	0	0	1	24	0	0
190070	1	78	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	13	136	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	4	152	0	0
991050	0	0	0	0	0	0	1	18	0	0
995090	0	0	0	0	0	0	1	90	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	38	0	0	2	113	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	15	0	0
290070	0	0	0	0	0	0	2	15	0	0
290090	1	65	0	0	0	0	2	7	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	1	54	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	11	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	1	35	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	13	3	81	0	0	2	13	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	9	28	0	0
8460110080	1	128	0	0	0	0	3	239	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	2	367	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	1	64
290030	1	55	0	0	0	0	0	0	0	0
290050	1	202	0	0	0	0	16	157	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	5	34	0	0	0	0	0	0	1	8
400060	0	0	0	0	0	0	0	0	0	0
400080	1	12	7	93	2	27	1	20	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	22	323	3	33	0	0	12	169	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	7	4	74	0	0	11	100	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	2	18	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	87	0	0
405060	2	183	0	0	0	0	1	33	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	12	125	4	42	4	36	32	508	2	13
9000000001	1	94	0	0	0	0	4	37	0	0
9800000001	16	148	15	420	0	0	72	640	1	6
9900000001	108	90	60	58	0	0	383	225	0	0
Month Tot	177	1923	103	1701	6	64	588	3202	9	283
Y-T-D Tot	1247	10019	589	17191	67	437	3087	19421	203	1283
NC YTD Tot*	38	4258	43	6884	0	0	69	4104	5	225

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - April 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	2	9	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	31
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	1	6	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	1	55	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	1	57	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	10	5	54	4	13
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	24	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	16	184	0	0	0	0	0	0
500090	0	0	5	32	0	0	1	26	1	5
9000000001	0	0	1	3	2	19	18	214	0	0
9800000001	0	0	0	0	2	20	0	0	0	0
9900000001	54	50	34	30	33	20	53	47	14	18
Month Tot	55	105	56	248	41	97	80	406	20	67
Y-T-D Tot	636	1933	126	1586	196	2057	324	2968	50	1034
NC YTD Tot*	10	520	17	451	2	419	12	810	2	122

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - April 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	2	289
100025	0	0	0	0	0	0	0	0	0	0
100035	1	260	0	0	0	0	0	0	2	514
100045	0	0	0	0	0	0	0	0	3	261
200010	0	0	0	0	0	0	0	0	0	0
200090	1	464	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	90
110030	0	0	0	0	0	0	1	81	1	82
110050	0	0	0	0	0	0	0	0	1	217
110090	0	0	0	0	0	0	0	0	0	0
190030	2	20	0	0	2	26	0	0	1	4
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	8	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	1	110	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	42
995090	5	226	0	0	1	755	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	2	108	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	3	254	0	0	0	0	0	0	0	0
290090	2	9	0	0	2	11	4	19	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	26
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	1	100	0	0
690050	0	0	0	0	0	0	2	158	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	14	0	0	0	0
700020	0	0	0	0	0	0	0	0	1	33
700080	2	44	0	0	2	5	0	0	6	17
8460110080	0	0	0	0	0	0	0	0	1	37
190010	0	0	0	0	0	0	1	11	0	0
190050	2	393	0	0	0	0	0	0	0	0
210080	1	318	0	0	0	0	2	612	3	359
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	1	713	1	36
390050	13	81	0	0	0	0	4	32	10	97
400060	0	0	0	0	0	0	0	0	0	0
400080	4	49	0	0	0	0	0	0	3	34
900060	0	0	0	0	0	0	0	0	1	49
900080	8	131	0	0	0	0	0	0	12	143
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	5	687	2	836
200010	0	0	0	0	0	0	1	14	0	0
200090	0	0	0	0	0	0	0	0	1	32
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	40	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	11	57	0	0	0	0	5	102	7	86
9000000001	1	650	0	0	0	0	7	68	8	267
9800000001	15	949	0	0	0	0	64	332	118	533
9900000001	962	157	0	0	15	22	155	92	368	395
Month Tot	1034	4068	0	0	24	943	255	3168	555	4478
Y-T-D Tot	1875	21965	14	3208	316	2317	907	13841	1964	12628
NC YTD Tot*	70	14208	0	0	1	110	25	3905	49	5083

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

RELEASED: June 27, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	124	7828	15	2018
8462100030	Headers and upsetters, including cold headers	69	4911	33	916
100050	Forging or die stamping machines, and hammers, n.e.c.	307	18916	36	2989
210080	Bending, folding, straight. or flat. mach., incl presses, NC	208	9029	62	2236
290030	Press brakes, non-NC	97	2555	36	957
290040	Bending rolls, non-NC	38	1102	9	189
290050	Bending, folding, straight., or flat., n.e.c., non-NC	419	13370	106	2941
310080	Shearing machines, NC	25	1359	10	217
390050	Shearing machines, non-NC	184	4668	47	507
410080	Punching or notching mach., incl. comb. punch & shear, NC	123	13548	28	2309
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	249	3978	61	908
910060	Hydraulic presses, NC	9	2721	5	1898
910090	Hydraulic presses, non-NC	615	6631	70	3268
990030	Presses, n.e.c., NC	41	3553	5	283
990035	Mechanical transfer presses, non-NC	2	2069	2	2069
990045	Mechanical presses, n.e.c., non-NC	50	1254	19	421
990060	Presses, n.e.c., non-NC	228	8138	37	1585
8463100080	Draw benches for bars, tubes, profiles, wire or the like	17	799	7	341
200080	Thread rolling machines	39	2010	8	556
300080	Machines for working wire	609	28584	142	8493
900080	Metal forming machine tools, n.e.c.	160	6419	24	1633
9800000002	Used or rebuilt machine tools	286	6613	92	2056
9900000002	Machine tools valued at less than $2,500	5046	2088	1749	612
	Forming Total			2603	39402
	Y-T-D Forming Total	8945	152141		
	NC Y-T-D Forming Total	406	30209		
	Cutting and Forming Totals:				
	Monthly Total			88078	194392
	Y-T-D Total	311074	732861		
	NC Y-T-D Total	4389	407673		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	193250	0	45984
2000000000	Parts for working rubber or plastics - heading 8477	0	114668	0	33806
2710003070	Quenching or cutting oils	0	77	0	23
8428900010	Industrial robots for lifting, handling, loading or unload	1047	17361	110	5010
8431390080	Parts industrial robots, handling and loading - heading 8428	0	31507	0	7892
8456101010	Laser, light or photon beam for working metal, NC	63	11760	15	2693
101020	Laser, light or photon beam for working metal, non-NC	34	570	4	139
105000	Laser, light or photon beam for other materials	51	1798	11	1466
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	2	22	0	0
205000	Ultrasonic processes for working other materials	4	184	0	0
8477103000	Injection molding mach., for manufacturing shoes	74	1510	55	573
106010	Injection molding mach., for rubber or oth. thermosetting	318	24151	102	5922
106050	Injection molding mach., for thermoplastics	946	90130	258	30380
200010	Extruders for rubber or other thermosetting materials	64	5360	16	1791
200050	Extruders for processing thermoplastics	316	21637	76	5619
300000	Blow molding machines	152	13734	22	4200
400000	Vacuum-molding and other thermoforming machines	64	1847	39	619
510010	Machines for molding or retreading pneumatic tires	267	22065	79	8306
510090	Machines for molding or otherwise forming inner tubes	97	5958	26	1471
590000	Machines for molding or otherwise forming n.e.c.	255	27549	52	2688
800000	Machines for working rubber or plastics n.e.c.	2987	40626	1526	6775
8479899040	Industrial robots, n.e.c.	9068	24411	5182	4022
908040	Industrial robot parts	0	11041	0	2815
8537100030	Numerical controls for controlling machine tools	5861	15913	1276	5185
9024100000	Machines and appliances for testing metals	0	3691	0	1025
9031100000	Machines for balancing mechanical parts	0	2204	0	558
300000	Profile projectors	0	2025	0	599
9032810020	Industrial process control instr., hydraulic	54030	624	19653	258
810060	Industrial process control instr., pneumatic	48891	1608	5103	571

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	6	351	0	0	1	127
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	5	379	0	0	2	80
210080	0	0	0	0	9	121	0	0	9	251
290030	12	243	0	0	19	580	0	0	0	0
290040	0	0	0	0	2	42	0	0	1	41
290050	1	4	0	0	37	1001	0	0	6	218
310080	10	217	0	0	0	0	0	0	0	0
390050	6	94	0	0	6	126	0	0	4	38
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	0	0
910060	3	190	0	0	0	0	0	0	0	0
910090	0	0	0	0	5	161	0	0	6	45
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	1	146	0	0	19	998	0	0	0	0
8463100080	5	41	0	0	1	6	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	11	1220	0	0	1	20	0	0	10	2516
900080	0	0	0	0	4	196	1	6	5	743
9800000002	13	263	0	0	13	153	0	0	4	1244
9900000002	0	0	0	0	22	31	7	6	198	40
Month Tot	62	2418	0	0	149	4164	8	12	246	5343
Y-T-D Tot	193	7987	0	0	633	18621	135	380	583	16552
NC YTD Tot	24	2143	0	0	15	365	2	20	43	749
C&F Month	70	2470	257	1397	299	5619	111	1906	4632	11719
C&F Y-T-D	216	8580	840	5452	1249	26057	741	8308	15974	39523
C&F NC YTD	26	2253	1	435	32	2270	40	4308	91	6609

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
1000000000	0	597	0	35	0	3864	0	843	0	1819
2000000000	0	378	0	0	0	4185	0	4703	0	834
2710003070	0	0	0	0	0	22	0	0	0	0
8428900010	2	108	0	0	5	71	0	0	0	0
8431390080	0	115	0	15	0	1054	0	32	0	14
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	1	114	18	383
106010	0	0	0	0	10	1072	6	442	3	317
106050	1	36	0	0	32	3419	1	207	5	136
200010	0	0	0	0	0	0	0	0	0	0
200050	1	168	0	0	9	385	0	0	4	236
300000	0	0	0	0	3	55	1	655	4	874
400000	0	0	0	0	0	0	0	0	0	0
510010	2	20	0	0	8	717	0	0	10	435
510090	0	0	0	0	4	361	0	0	1	2
590000	0	0	0	0	20	935	0	0	3	135
800000	18	51	0	0	41	557	5	153	7	43
8479899040	0	0	0	0	33	37	0	0	0	0
908040	0	6	0	0	0	46	0	0	0	91
8537100030	0	0	0	0	26	3	1	2	22	128
9024100000	0	28	0	0	0	2	0	0	0	37
9031100000	0	0	0	0	0	7	0	0	0	65
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	5	23	0	0	0	0
810060	0	0	0	0	0	0	0	0	262	32

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	6	1260	0	0	0	0	0	0	0	0
8462100030	1	96	0	0	0	0	0	0	0	0
100050	13	1923	2	56	0	0	0	0	0	0
210080	27	1272	0	0	0	0	0	0	0	0
290030	3	89	0	0	2	44	0	0	0	0
290040	0	0	0	0	0	0	0	0	4	92
290050	10	499	0	0	0	0	0	0	8	275
310080	0	0	0	0	0	0	0	0	0	0
390050	19	125	0	0	0	0	0	0	0	0
410080	2	372	0	0	0	0	0	0	0	0
490050	3	143	0	0	0	0	16	167	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	42	1898	0	0	0	0	0	0	0	0
990030	5	283	0	0	0	0	0	0	0	0
990035	2	2069	0	0	0	0	0	0	0	0
990045	11	314	0	0	0	0	0	0	0	0
990060	6	246	0	0	0	0	0	0	2	60
8463100080	0	0	0	0	0	0	0	0	0	0
200080	5	437	0	0	0	0	1	76	0	0
300080	90	2824	0	0	0	0	0	0	0	0
900080	5	196	0	0	0	0	2	354	0	0
9800000002	13	260	0	0	0	0	0	0	1	19
9900000002	97	21	0	0	0	0	18	12	50	75
Month Tot	360	14327	2	56	2	44	37	609	65	522
Y-T-D Tot	1444	59366	7	120	7	53	167	1509	360	2988
NC YTD Tot	186	14592	0	0	0	0	0	0	3	439
C&F Month	7132	94658	35	1077	98	2123	292	2919	519	1112
C&F Y-T-D	22483	361215	1165	6923	382	7826	979	9652	1179	6983
C&F NC YTD	2621	278891	47	3563	78	4191	34	809	9	1884

Other Manufacturing Technology

1000000000	0	13067	0	131	0	921	0	184	0	2439
2000000000	0	4738	0	3	0	90	0	201	0	6
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	58	2843	0	0	0	0	0	0	6	244
8431390080	0	413	0	208	0	0	0	6	0	157
8456101010	14	2681	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	45	2565	0	0	0	0	0	0	0	0
106050	99	13548	3	265	7	117	0	0	0	0
200010	6	755	0	0	0	0	1	124	0	0
200050	7	963	0	0	0	0	0	0	0	0
300000	6	1116	0	0	0	0	2	281	0	0
400000	2	237	0	0	0	0	0	0	0	0
510010	56	6735	0	0	0	0	0	0	0	0
510090	4	905	0	0	0	0	0	0	1	2
590000	12	1122	0	0	0	0	0	0	0	0
800000	1152	3046	0	0	0	0	12	19	13	4
8479899040	5069	3111	59	6	0	0	0	0	16	720
908040	0	1636	0	0	0	5	0	0	0	64
8537100030	1216	4978	0	0	0	0	0	0	0	0
9024100000	0	351	0	0	0	0	0	0	0	93
9031100000	0	340	0	0	0	0	0	0	0	0
300000	0	188	0	0	0	0	0	0	0	0
9032810020	135	31	5500	24	0	0	0	0	0	0
810060	840	6	0	0	0	0	0	0	933	174

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	182	0	0	0	0	1	97
8462100030	0	0	0	0	0	0	32	820	0	0
100050	1	411	1	5	6	86	2	13	4	37
210080	1	21	0	0	1	27	12	518	3	26
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	2	14	0	0	0	0	0	0
290050	6	399	5	24	2	72	10	383	21	67
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	4	9	79	2	42
410080	1	404	1	76	0	0	21	736	3	721
490050	3	279	0	0	0	0	39	318	0	0
910060	0	0	1	650	0	0	1	1058	0	0
910090	2	509	5	413	1	30	9	212	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	8	108	0	0
990060	0	0	3	59	4	13	2	63	0	0
8463100080	0	0	0	0	0	0	1	293	0	0
200080	0	0	2	43	0	0	0	0	0	0
300080	4	689	0	0	3	67	23	1157	0	0
900080	2	9	2	28	1	3	2	99	0	0
9800000002	0	0	11	14	35	85	2	19	0	0
9900000002	47	9	791	266	0	0	58	53	461	98
Month Tot	67	2731	825	1774	54	386	231	5929	495	1088
Y-T-D Tot	301	9680	2541	4227	339	4334	876	20871	1359	5453
NC YTD Tot	10	1469	5	807	5	142	92	7240	21	2243
C&F Month	232	9608	54251	12852	482	9356	5321	28747	14347	8828
C&F Y-T-D	963	33946	216131	47207	2453	39965	8229	102718	38090	28506
C&F NC YTD	164	9567	371	11294	292	22679	389	48613	194	10308

Other Manufacturing Technology

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	2807	0	1262	0	3576	0	11891	0	2549
2000000000	0	763	0	5145	0	626	0	10536	0	1598
2710003070	0	1	0	0	0	0	0	0	0	0
8428900010	4	209	0	0	12	655	15	497	8	383
8431390080	0	2365	0	114	0	1262	0	834	0	1303
8456101010	1	12	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	14	3	125	0	0
105000	1	348	0	0	3	113	0	0	7	1005
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	36	77	0	0
106010	1	85	9	367	0	0	0	0	28	1075
106050	14	645	2	42	4	114	36	9454	54	2396
200010	1	68	1	20	0	0	7	824	0	0
200050	0	0	3	248	15	119	36	3496	1	2
300000	0	0	0	0	0	0	4	473	2	746
400000	0	0	0	0	0	0	37	382	0	0
510010	0	0	0	0	0	0	0	0	3	398
510090	0	0	0	0	4	30	8	102	4	69
590000	1	383	0	0	13	15	2	47	1	51
800000	192	563	6	67	17	243	57	1655	6	372
8479899040	0	0	0	0	0	0	2	18	3	130
908040	0	87	0	17	0	310	0	544	0	9
8537100030	1	25	0	0	0	0	2	30	8	18
9024100000	0	35	0	4	0	166	0	168	0	142
9031100000	0	31	0	0	0	4	0	2	0	110
300000	0	17	0	0	0	349	0	22	0	23
9032810020	110	4	0	0	1380	9	162	8	12361	159
810060	0	0	2580	24	0	0	60	248	428	88

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
April 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	98	2594	0	0	98	2594
Bulgaria	0	0	0	0	0	0
Czechoslovakia	13	110	0	0	13	110
Denmark	27	207	2	4	29	211
East Germany	23	65	0	0	23	65
Finland	4	21	9	743	13	763
Hungary	0	0	0	0	0	0
Ireland	1	3	0	0	1	3
Luxembourg	0	0	0	0	0	0
Netherlands	54	175	2	42	56	216
Norway	0	0	0	0	0	0
Poland	29	736	0	0	29	736
Portugal	0	0	1	22	1	22
Romania	0	0	0	0	0	0
USSR	2	20	0	0	2	20
Yugoslavia	43	244	0	0	43	244
Oth Europe	6	226	3	34	9	261
TOTAL	11189	54289	787	18794	11976	73083
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	236	81	56	112	292	193
Oth N & C Am.	0	0	0	0	0	0
TOTAL	386	1537	205	4275	591	5812
SOUTH AMERICA						
Argentina	1	43	0	0	1	43
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	3	326	0	0	3	326
Oth South Am.	0	0	0	0	0	0
TOTAL	261	1766	0	0	261	1766
OCEANIA						
Australia	1	76	1	97	2	173
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	1	76	1	97	2	173

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
April 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	13287	2048	416	31	13703	2079
Hong Kong	0	0	1	1	1	1
India	6	130	4	3	10	133
Indonesia	1	3	0	0	1	3
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	15	628	0	0	15	628
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	73636	97320	1610	16236	75246	113556
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	2	3	0	0	2	3
Oth Africa	0	0	0	0	0	0
TOTAL	2	3	0	0	2	3

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

U.S. IMPORTS - Metal Cutting Machine Tools - April 90

RELEASED: June 27, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	364	20978	91	4975
301050	Electro-discharge machines, n.e.c., NC	70	3869	21	1666
301070	Electro-discharge machines, n.e.c., non-NC	116	2601	22	485
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	823	66988	199	15685
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	48	10228	11	4071
100035	Horiz. mach. ctrs., ATC	289	65347	111	24540
100045	Mach. ctrs., n.e.c.	84	10785	23	4684
200010	Unit construction mach. (single station transfer), NC	13	1295	0	0
200090	Unit construction mach. (single station transfer), non-NC	0	0	0	0
300010	Multi-station transfer machines, NC	25	7799	17	4263
300090	Multi-station transfer machines, non-NC	43	9626	24	3929
8458110010	Horiz. lathes, multiple spindle, NC	100	15429	18	2690
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	852	59295	199	13910
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	214	28989	60	8593
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	22	5064	4	522
190030	Horiz. engine or toolroom lathes, non-NC	1421	13389	373	3442
190050	Automatic bar and/or chucking mach., single spindle, non-NC	465	8341	358	3093
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	62	3844	20	411
190090	Horiz. lathes, n.e.c., non-NC	522	5795	115	1717
911060	Vertical turret lathes, multiple spindle, NC	15	2450	2	296
911080	Vertical turret lathes, n.e.c., NC	9	2469	2	990
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	24	2956	2	170
991050	Vertical turret lathes, non-NC	57	1324	16	553
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	344	5265	94	893
8459100000	Way-type unit head machines	0	0	0	0
210080	Other drilling machines, NC	130	8724	29	1746
290040	Drilling machines, multiple spindle, non-NC	42	1148	2	23
290050	Drilling machines, radial, non-NC	165	1201	52	349
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	25	321	7	136
290090	Drilling machines, n.e.c., non-NC	135	4279	23	1341
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	2	297	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	26	2645	2	230
310070	Boring-milling mach., n.e.c., NC	17	657	5	21
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	9	675	1	148
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	31	1021	3	126
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	14	490	1	13
400070	Boring machines, n.e.c., NC	9	1296	2	900
400080	Boring machines, n.e.c., non-NC	77	2058	33	383
510080	Milling machines, knee type, NC	230	3766	114	1285
590030	Milling machines, knee type, non-NC	1307	8995	380	2437
610080	Milling machines, excl. knee type, n.e.c., NC	91	6032	16	2197
690050	Milling machines, profile, dup., or die sinking, non-NC	31	313	25	285
690070	Milling machines, bed type, non-NC	27	1032	6	261
690090	Milling machines, n.e.c., non-NC	221	6811	57	1228
700020	Threading or tapping machines, n.e.c., NC	62	3224	15	1002
700080	Threading or tapping machines, n.e.c., non-NC	61	1209	8	79
8460110080	Flat surface grinding mach., NC	67	3918	42	2164
190010	Flat surface grinding mach., recip.-table type, non-NC	332	4461	71	1098
190050	Flat surface grinding mach., n.e.c., non-NC	747	6745	235	1954
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	154	28354	41	7801
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	181	5368	57	1160
290030	Grinding mach., internal cylindrical, non-NC	33	3194	5	158
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	333	12236	83	2239
310080	Sharpening machines (tool & cutter grinding), NC	91	1643	26	364
390050	Sharpening machines (tool & cutter grinding), non-NC	293	3556	56	799
400060	Honing or lapping machines, NC	12	1302	2	328
400080	Honing or lapping machines, non-NC	71	1989	7	330
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	19	1151	4	458
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	480	13099	108	2198
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	1	5	0	0
200010	Shaping or slotting machines, NC	65	2295	0	0
200090	Shaping or slotting machines, non-NC	80	1141	8	26
300060	Broaching machines, NC	2	5118	0	0
300080	Broaching machines, non-NC	54	1253	37	336
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	27	4287	12	2151
401040	Gear shapers	10	3012	2	769
401060	Gear cutting machines, n.e.c.	64	420	1	4
405050	Gear grinding or finishing for bevel gears	55	626	14	40
405070	Gear grinding or finishing machines, n.e.c.	28	8385	5	1225
500050	Sawing or cutting-off machines, NC	48	2886	2	1283
500090	Sawing or cutting-off machines, non-NC	682	9848	200	2103
9000000001	Metal cutting machine tools, n.e.c.	134	3466	21	602
9800000001	Used or rebuilt machine tools	1296	9607	832	1571
9900000001	Machine tools valued at less than $2,500	288076	31015	81041	8058
	Cutting Total			85475	154989
	Y-T-D Cutting Total	302129	580720		
	NC Y-T-D Cutting Total	3983	377464		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - April 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	1	65	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	5	438	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	12	996
300090	0	0	0	0	0	0	0	0	2	833
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	323	0	0
110090	0	0	0	0	0	0	0	0	1	116
190030	0	0	88	538	5	57	0	0	0	0
190050	0	0	18	109	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	35	0	0
190090	0	0	84	448	1	3	1	114	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	1	772	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	2	51	0	0
995090	0	0	25	172	2	6	2	22	1	8
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	2	18	0	0	0	0	5	79
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	10	0	0	1	1099
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	228
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	3	52	0	0	20	216
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	99
690090	0	0	0	0	0	0	0	0	17	144
700020	0	0	0	0	0	0	0	0	0	0
700080	6	45	0	0	1	5	0	0	0	0
8460110080	1	7	0	0	1	50	0	0	6	1141
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	3	9	0	0	1	20
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	17	106	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	10	207
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	3	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	3	69	5	16	16	102
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	7	20	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	1	4	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	1	70	1	129	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	36	102	21	233	0	0	48	224
9000000001	0	0	0	0	1	6	15	307	1	7
9800000001	0	0	0	0	9	282	1	4	4	78
9900000001	1	1	4	10	66	32	71	55	4239	779
Month Tot	8	53	257	1397	150	1456	103	1893	4386	6376
Y-T-D Tot	23	593	840	5452	616	7436	606	7928	15391	22972
NC YTD Tot	2	110	1	435	17	1905	38	4288	48	5860

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - April 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	41	3439	0	0	0	0	0	0	0	0
301050	12	887	0	0	0	0	0	0	0	0
301070	2	275	0	0	0	0	0	0	0	0
8457100015	126	11559	6	405	15	775	0	0	0	0
100025	9	1700	0	0	0	0	0	0	0	0
100035	73	20306	0	0	0	0	0	0	0	0
100045	1	263	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	5	3267	0	0	0	0	0	0	0	0
300090	1	221	0	0	0	0	0	0	0	0
8458110010	15	1940	0	0	0	0	0	0	0	0
110030	181	13153	0	0	0	0	0	0	0	0
110050	55	7953	0	0	0	0	0	0	0	0
110090	1	92	0	0	0	0	1	150	0	0
190030	1	53	20	203	29	347	0	0	0	0
190050	6	142	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	2	184	0	0	0	0	0	0	0	0
911060	1	253	0	0	0	0	0	0	0	0
911080	1	217	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	139	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	6	317	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	19	1177	1	97	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	4	30	0	0
290070	0	0	0	0	0	0	1	8	2	13
290090	7	60	0	0	0	0	0	0	7	39
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	1	148	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	2	900	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	14	127	0	0
590030	8	172	0	0	0	0	227	1392	0	0
610080	9	1803	0	0	3	124	0	0	0	0
690050	1	31	0	0	0	0	0	0	0	0
690070	1	35	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	4	46	0	0
700020	15	1002	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	1	235	0	0	0	0	0	0	0	0
190010	3	186	0	0	39	576	0	0	0	0
190050	0	0	0	0	10	256	1	254	0	0
210080	18	3200	0	0	0	0	0	0	0	0
290010	10	292	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	14	541	0	0	0	0	1	148	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	7	63	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	3	230	0	0	0	0	0	0	0	0
900060	2	284	0	0	0	0	0	0	0	0
900080	37	961	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	3	648	0	0	0	0	0	0	0	0
401040	1	177	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	14	40	0	0	0	0	0	0	0	0
405070	1	263	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	18	744	0	0	0	0	0	0	2	66
9000000001	1	43	0	0	0	0	1	6	0	0
9800000001	261	189	0	0	0	0	0	0	0	0
9900000001	5782	1014	0	0	0	0	0	0	443	472
Month Tot	6772	80332	33	1022	96	2079	255	2310	454	590
Y-T-D Tot	21039	301850	1158	6803	375	7773	812	8142	819	3995
NC YTD Tot	2435	264299	47	3563	78	4191	34	809	6	1445

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - April 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	39	1442	11	94	0	0	0	0	0	0
301050	6	393	0	0	3	387	0	0	0	0
301070	1	63	6	31	0	0	0	0	13	116
8457100015	0	0	11	687	33	1828	1	140	6	226
100025	0	0	1	76	0	0	1	2294	0	0
100035	0	0	6	762	9	175	22	1274	1	2022
100045	0	0	0	0	0	0	3	3525	14	458
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	3	586	0	0	0	0	18	2290	0	0
8458110010	0	0	0	0	0	0	3	750	0	0
110030	0	0	9	451	2	79	0	0	7	227
110050	0	0	0	0	1	152	1	90	1	74
110090	0	0	0	0	0	0	1	165	0	0
190030	0	0	97	763	42	543	0	0	91	938
190050	1	215	33	351	0	0	300	2275	0	0
190070	3	125	10	73	0	0	0	0	6	177
190090	4	565	0	0	14	374	0	0	9	30
911060	0	0	0	0	0	0	0	0	1	43
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	30	0	0	0	0
991050	1	416	0	0	8	9	0	0	5	77
995090	0	0	0	0	0	0	0	0	58	367
8459100000	0	0	0	0	0	0	0	0	0	0
210080	2	80	0	0	0	0	7	392	0	0
290040	0	0	0	0	0	0	0	0	2	23
290050	0	0	33	188	0	0	0	0	8	34
290070	0	0	2	18	0	0	2	97	0	0
290090	0	0	0	0	0	0	2	105	4	28
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	1	2	0	0	0	0	0	0
310070	0	0	1	3	0	0	4	19	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	3	126
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	13
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	7	0	0	8	102	1	5
510080	11	148	64	465	15	495	0	0	10	49
590030	0	0	87	520	1	3	0	0	57	351
610080	0	0	2	203	2	66	0	0	0	0
690050	0	0	0	0	0	0	0	0	24	254
690070	0	0	4	127	0	0	0	0	0	0
690090	0	0	12	65	5	593	0	0	19	380
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	29	0	0	0	0
8460110080	1	173	22	205	5	82	4	253	1	19
190010	0	0	12	72	0	0	17	265	0	0
190050	3	95	183	1149	4	64	2	7	28	102
210080	1	324	0	0	2	2282	20	1995	0	0
290010	6	338	1	26	8	154	4	168	11	76
290030	3	153	0	0	0	0	2	5	0	0
290050	3	453	5	64	3	58	46	734	1	35
310080	2	11	2	34	1	14	20	230	1	76
390050	15	168	7	49	10	57	13	417	3	41
400060	0	0	0	0	0	0	2	328	0	0
400080	0	0	0	0	3	82	1	18	0	0
900060	1	4	0	0	0	0	0	0	1	170
900080	3	187	8	48	6	30	10	509	20	276
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	6	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	36	316	1	20	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	8	1484	1	20
401040	0	0	0	0	0	0	1	592	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	735	0	0	0	0	1	28	0	0
500050	0	0	0	0	0	0	1	1215	1	67
500090	1	10	14	45	0	0	28	436	32	242
9000000001	1	97	0	0	1	137	0	0	0	0
9800000001	4	64	501	39	30	796	20	115	2	3
9900000001	49	31	52280	4459	182	136	4515	475	13409	595
Month Tot	165	6877	53426	11078	428	8970	5090	22818	13852	7739
Y-T-D Tot	662	24266	213590	42981	2114	35631	7353	81847	36731	23053
NC YTD Tot	154	8097	366	10487	287	22537	297	41373	173	8065

Please see notes on last page of the metal forming section.

REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 101-90 August 1, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – MAY 1990

(Values in Millions of U.S. Dollars)

	May 1990	Apr. 1990	Average Feb.-Apr.	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 46.5	$ 43.6	$ 51.9	$263.3	$178.1	47.8%
Imports	$125.0	$155.0	$135.7	$705.7	$762.0	(7.4%)
Balance	($ 78.5)	($111.4)	($ 83.8)	($442.4)	($583.9)	(24.2%)
METAL FORMING MACHINE TOOLS						
Exports	$ 38.9	$ 41.9	$ 38.8	$197.0	$201.3	(2.1%)
Imports	$ 34.8	$ 39.4	$ 36.5	$187.0	$244.0	(23.4%)
Balance	$ 4.1	$ 2.5	$ 2.3	$ 10.0	($ 42.7)	N.M.
MACHINE TOOL TOTAL						
Exports	$ 85.4	$ 85.5	$ 90.6	$460.3	$379.4	21.3%
Imports	$159.8	$194.4	$172.2	$892.7	$1,005.9	(11.3%)
Balance	($ 74.4)	($108.9)	($ 81.6)	($432.4)	($626.5)	(31.0%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 24.0	$ 28.7	$ 30.9	$152.7	$ 90.8	68.2%
Imports	$ 79.9	$113.8	$ 96.2	$487.6	$527.9	(7.6%)
Balance	($ 55.9)	($ 85.1)	($ 65.3)	($334.9)	($437.1)	(23.4%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$166.9	$148.0	$149.5	$764.9	N.A.	N.A.
Imports	$152.6	$180.4	$165.1	$839.9	N.A.	N.A.
Balance	$ 14.3	($ 32.4)	($ 15.6)	($ 75.0)	N.A.	N.A.

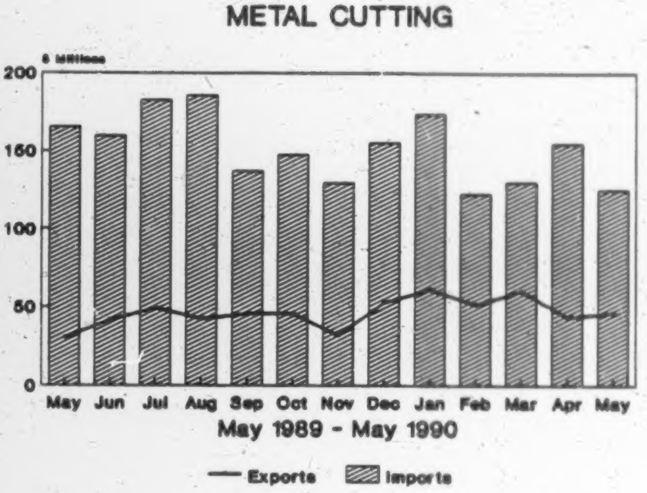
Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; N.M. = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

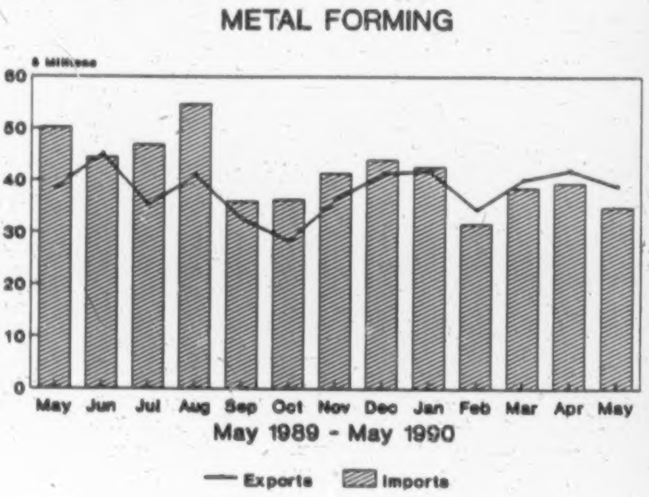
- U.S. metal cutting machine tool exports rose slightly in May over April, while metal forming exports fell about the same amount.

- Machine tool imports in May were 18% lower than April at $159.8 million, led by a $30 million drop in metal cutting machine tool imports. Year-to-date imports are down 11% over 1989.

- Year-to-date U.S. exports of numerically controlled machine tools ($152.7 million) are 68% higher in 1990 than 1989. Imports of NC machines are down 8% to $487.6 million.

U.S. MONTHLY TRADE IN MACHINE TOOLS





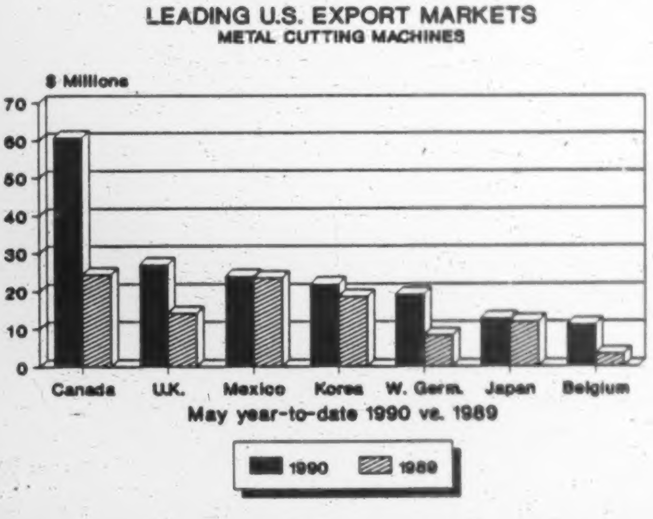
METAL CUTTING MACHINE TOOLS

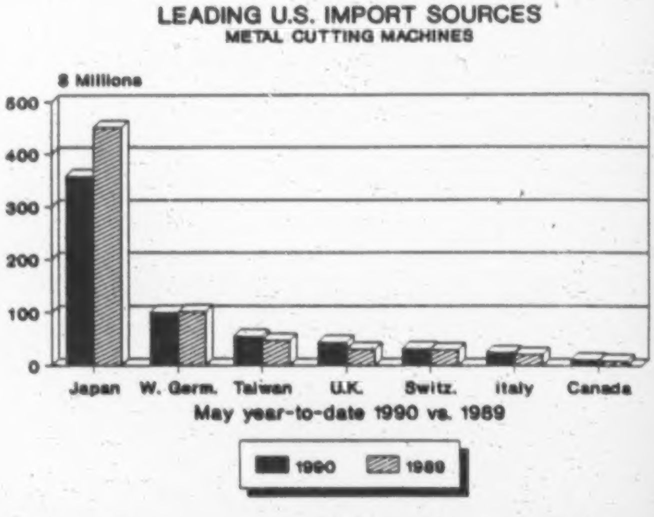
Exports

- Year-to-date U.S. metal cutting exports are up 48% over 1989. Leading export markets include Canada ($60.7 million, up 150% over 1989), the United Kingdom ($26.9 million, up 90%) and Mexico ($23.9 million, up 2%).

- Exports in May were up 7% over April to $46.5 million, paced by a rebound in gear cutting machine exports from $0.3 million to $3.9 million. Exports of lathes fell from $7.9 million in April to $5.6 million in May.

- Year-to-date 1990 metal cutting machine tool exports to West Germany of $19.0 million are more than double the 1989 year-to-date level. In addition, in May a non-NC grinding machine valued at $0.2 million was exported to Bulgaria, marking the first U.S. machine tool exported to that country since June 1989.





Imports

- U.S. metal cutting imports fell 19% in May from April to $125.0 million. The average for the previous three months: $135.7 million.

- Year-to-date metal cutting imports from Japan are 21% lower than last year. In 1990 through May, imports of machining centers from Japan are down from 929 units to 850 units, but up in value from $110.4 million to $122.1 million. Imports of Japanese NC lathes fell from 1,562 to 1,241 units and from $151.2 million to $122.9 million in value.

- In May, imports of machining centers fell to $21.4 million (from $49.0 million in April), the lowest monthly total since October 1988.

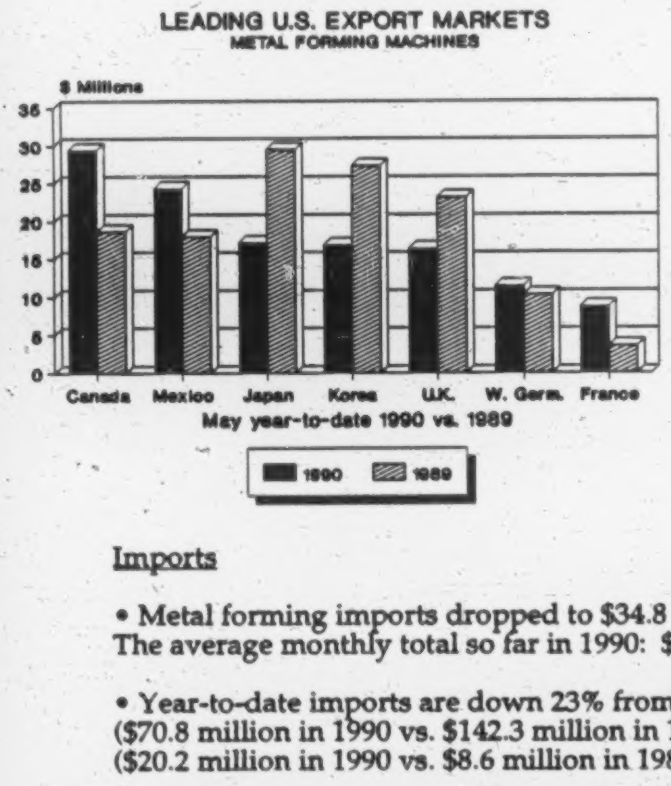
METAL FORMING MACHINE TOOLS

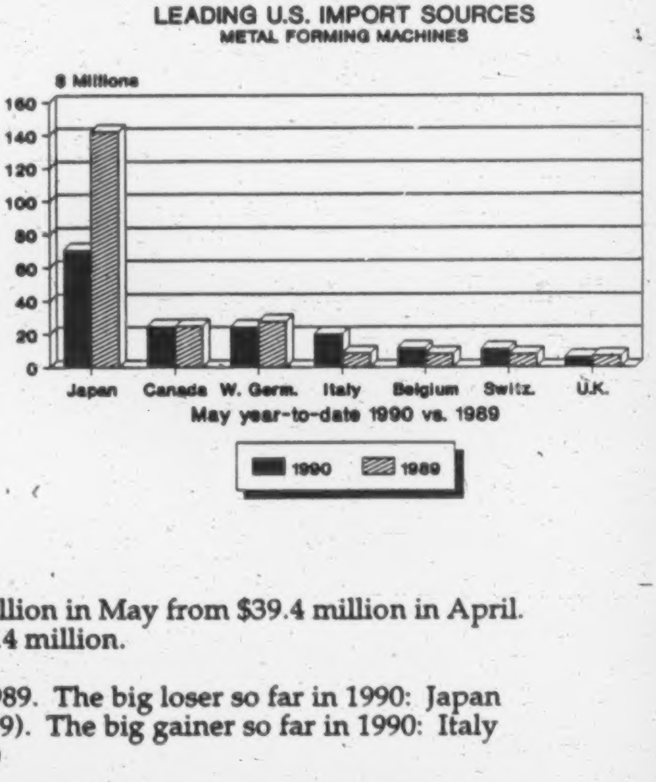
Exports

- U.S. metal forming machine tool exports fell 7% in May to $38.9 million, slightly less than the average so far in 1990 of $39.4 million. Year-to-date metal forming exports are down 2% from 1989.

- U.S. exports of punching and shearing machines were $6.6 million in May, up from $3.8 million in April. The year-to-date total is $30.1 million, 19% higher than 1989.

- Canada remains by far the leading U.S. metal forming export market at $29.4 million, up from $18.6 million in 1989. Other leading markets: Mexico ($24.3 million, up 35% over 1989), Japan ($17.2 million, down 42%) and South Korea ($16.9 million, down 38%.)





Imports

- Metal forming imports dropped to $34.8 million in May from $39.4 million in April. The average monthly total so far in 1990: $37.4 million.

- Year-to-date imports are down 23% from 1989. The big loser so far in 1990: Japan ($70.8 million in 1990 vs. $142.3 million in 1989). The big gainer so far in 1990: Italy ($20.2 million in 1990 vs. $8.6 million in 1989.)

- Imports of presses in May fell to $4.2 million from $9.5 million in April. The year-to-date total for imports of presses is $28.6 million, down from $75.9 million at this time last year.

OTHER MANUFACTURING TECHNOLOGY

Exports

- U.S. exports of machine tool parts and accessories totalled $61.8 million in May. The average for January-April: $61.1 million. Exports of parts for working rubber or plastics were $27.1 million in May, up from $22.0 million in April.

- U.S. exports of industrial process control instruments totalled $3.3 million in May. The monthly average for 1990: $3.3 million.

- U.S. exports of blow molding machines reached $5.2 million in May, up from $3.5 million in April and higher than the 1990 monthly average of $3.4 million. The largest U.S. export markets for blow molding machines in 1990: Japan ($4.8 million), Mexico ($3.6 million) and the United Kingdom ($1.6 million).

Imports

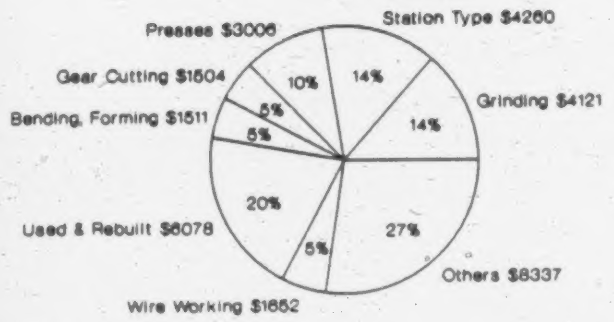
- U.S. imports of numerical controls for controlling machine tools rose to $7.0 million in May from $5.2 million in April. The year-to-date monthly average: $4.6 million.

- Imports of machine tool parts and accessories were $43.1 million in May, down from $46.0 million in April. Imports of parts for working rubber or plastics were $25.3 million in May, down from $33.8 million in April.

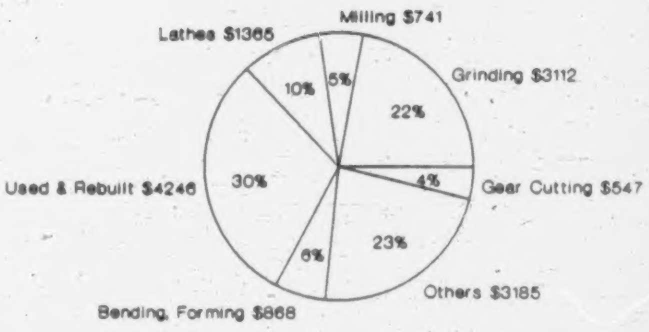
MONTHLY FOCUS

Year-to-date U.S. machine tool exports are up 21% in 1990 over 1989. Part of the credit for the higher exports goes to West Germany and India. U.S. exports to West Germany reached $30.5 million in 1990 through May, up 65% over last year, while U.S. exports to India were up 64% to $14.1 million. The charts below detail U.S. machine tool exports to West Germany and India in 1990 through May.

U.S. Exports to West Germany
January - May 1990
($ Thousands)



U.S. Exports to India
January - May 1990
($ Thousands)



1990 EXPORTS

METAL CUTTING

COUNTRY	MAY	APRIL	%CHANGE	MAY YTD'90	MAY YTD'89	%CHANGE
Canada	$ 6,693,716	$11,788,934	-43.22%	$60,691,325	$24,292,788	149.83%
U.K.	4,900,020	4,068,271	20.44	26,864,613	14,133,108	90.08
Mexico	4,429,836	3,201,636	38.36	23,850,673	23,334,410	2.21
Korea	4,533,605	1,701,195	166.50	21,724,961	18,384,374	18.17
West Germany	5,195,633	3,168,393	63.98	19,036,473	8,169,376	133.02
Japan	2,613,638	1,922,553	35.95	12,633,133	11,818,856	6.89
Belgium	1,417,268	2,657,856	-46.68	11,026,441	3,165,050	248.38
China	1,595,456	2,448,305	-34.83	10,198,765	12,857,044	-20.68
Australia	1,962,761	3,125,583	-37.20	9,706,833	3,655,695	165.53
India	624,527	1,061,879	-41.19	8,964,724	3,824,719	134.39
Brazil	861,918	480,843	79.25	7,442,155	3,414,110	117.98
Italy	746,666	636,420	17.32	6,556,459	6,717,633	-2.40
France	668,436	592,332	12.85	4,674,558	6,955,208	-32.79
Taiwan	284,581	405,986	-29.90	3,252,423	3,861,621	-15.78
USSR	33,812	0	NA	3,241,319	690,600	369.35
Venezuela	897,071	943,187	-4.89	3,213,626	4,394,232	-26.87
Singapore	1,246,622	104,824	1,089.25	3,179,975	3,211,116	-0.97
Switzerland	317,301	97,492	225.46	2,374,551	1,955,744	21.41
Netherlands	994,204	283,325	250.91	2,277,196	2,987,889	-23.79
Spain	575,869	248,188	132.03	2,161,696	1,305,898	65.53
Thailand	19,287	67,338	-71.36	1,052,922	688,917	52.84
Malaysia	26,061	63,765	-59.13	462,855	399,051	15.99
Austria	56,165	25,315	121.86	181,199	455,229	-60.20
Indonesia	0	25,000	-100.00	115,636	2,005,738	-94.23

METAL FORMING

COUNTRY	MAY	APRIL	%CHANGE	MAY YTD'90	MAY YTD'89	%CHANGE
Canada	$ 4,543,183	$ 6,455,241	-29.62%	$29,430,889	$18,631,631	57.96%
Mexico	6,198,769	5,459,065	13.55	24,343,364	17,972,397	35.45
Japan	3,470,971	2,804,116	23.78	17,155,133	29,474,594	-41.80
Korea	1,971,841	3,087,797	-36.14	16,872,027	27,305,609	-38.21
U.K.	6,078,649	3,510,840	73.14	16,383,296	23,138,847	-29.20
West Germany	2,658,596	1,510,578	76.00	11,432,079	10,279,745	11.21
France	2,639,124	1,151,399	129.21	8,742,634	3,558,708	145.67
China	1,290,309	1,475,715	-12.56	8,183,427	6,730,230	21.59
Taiwan	228,704	1,950,979	-88.28	7,701,095	5,565,309	38.38
Italy	1,838,777	1,015,223	81.12	5,231,564	4,816,631	8.61
India	145,740	278,778	-47.72	5,098,996	4,737,260	7.64
Netherlands	497,594	804,647	-38.16	3,267,069	1,408,358	131.98
Australia	183,371	1,648,949	-88.88	2,833,803	4,021,859	-29.54
Singapore	549,143	1,167,078	-52.95	2,787,099	6,086,570	-54.21
Brazil	635,010	595,200	6.69	2,293,445	1,836,570	24.88
Malaysia	102,871	1,327,715	-92.25	1,710,512	422,176	305.17
Belgium	217,234	182,619	18.95	1,673,495	888,397	88.37
Spain	351,890	481,663	-26.94	1,641,701	2,428,403	-32.40
Austria	823,996	8,643	9,433.68	1,603,022	616,150	160.17
Switzerland	37,346	25,356	47.29	1,010,039	917,643	10.07
Thailand	270,383	106,510	153.86	746,890	1,280,663	-41.68
USSR	611,615	0	NA	611,615	107,711	467.83
Venezuela	197,932	51,650	283.22	525,886	4,499,447	-88.31
Indonesia	0	6,969	-100.00	31,164	106,813	-70.82

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	MAY	APRIL	%CHANGE	MAY YTD'90	MAY YTD'89	%CHANGE
Canada	$11,236,899	$18,244,175	-38.41%	$90,122,214	$42,924,419	109.96%
Mexico	10,628,605	8,660,701	22.72	48,194,037	41,306,807	16.67
U.K.	10,978,669	7,579,111	44.85	43,247,909	37,271,955	16.03
Korea	6,505,446	4,788,992	35.84	38,596,988	45,689,983	-15.52
West Germany	7,854,229	4,678,971	67.86	30,468,552	18,449,121	65.15
Japan	6,084,609	4,726,669	28.73	29,788,266	41,293,450	-27.86
China	2,885,765	3,924,020	-26.46	18,382,192	19,587,274	-6.15
India	770,267	1,340,657	-42.55	14,063,720	8,561,979	64.26
France	3,307,560	1,743,731	89.68	13,417,192	10,513,916	27.61
Belgium	1,634,502	2,840,475	-42.46	12,699,936	4,053,447	213.31
Australia	2,146,132	4,774,532	-55.05	12,540,636	7,677,554	63.34
Italy	2,585,443	1,651,643	56.54	11,788,023	11,534,264	2.20
Taiwan	513,285	2,350,965	-78.22	10,953,518	9,426,930	16.19
Brazil	1,496,928	1,076,043	39.11	9,735,600	5,250,680	85.42
Singapore	1,795,765	1,271,902	41.19	5,967,074	9,297,686	-35.82
Netherlands	1,491,798	1,087,972	37.12	5,544,265	4,396,247	26.11
USSR	645,427	0	NA	3,852,934	798,311	382.64
Spain	927,759	729,851	27.12	3,803,397	3,734,301	1.85
Venezuela	1,095,003	994,837	10.07	3,739,512	8,893,679	-57.95
Switzerland	354,647	122,848	188.69	3,384,590	2,873,387	17.79
Malaysia	128,932	1,391,480	-90.73	2,173,367	821,227	164.65
Thailand	289,670	173,848	66.62	1,799,812	1,969,580	-8.62
Austria	880,161	33,958	2,491.91	1,784,221	1,071,379	66.53
Indonesia	0	31,969	-100.00	146,800	2,112,551	-93.05

1990 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	$ 12,224,015	4,543	$ 10,935,156	5,847	$ 11,979,000	4,803	$ 14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	$103,070,069	5,993	$ 85,972,344	7,953	$100,460,308	6,329	$ 85,468,146

PRODUCT TYPES	MAY 1990		MAY 90' Y-T-D TOTALS		MAY 1989		MAY 89' Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	$ 13,323,757	23,606	$ 63,391,126	4,512	$ 10,318,184	24,023	$ 58,077,776
Boring Machines	23	2,694,052	65	8,532,901	10	1,811,008	145	9,167,582
Drilling Machines	141	1,391,074	460	8,132,045	39	2,487,530	116	6,702,787
Gear Cutting Machines	16	3,920,375	97	17,026,456	17	1,579,602	89	12,123,503
Grinding Machines	234	9,407,118	1,498	58,367,909	227	5,612,584	1,572	43,187,269
Horizontal Lathes NC	43	4,213,770	195	22,025,858	13	1,205,227	100	9,436,059
Vertical Lathes NC	4	245,844	30	2,623,358	1	80,170	5	558,739
Lathes Non-NC	60	1,105,382	307	7,911,217	37	1,373,016	211	6,220,542
Milling Machines	38	1,738,745	222	16,855,360	35	2,375,933	266	14,378,462
Machining Centers	23	4,666,577	198	31,275,949	28	3,340,264	113	17,283,991
Station Type Machines	2	2,487,300	50	20,821,899	7	1,176,710	30	9,246,286
Other Metal Cutting	484	5,316,601	1,743	35,447,448	167	3,352,346	1,060	20,052,763
Punching & Shearing Machines	162	6,578,641	656	30,138,576	74	5,837,129	479	25,373,579
Bending & Forming Machines	142	4,048,283	709	25,189,144	91	7,421,103	480	22,779,356
Presses	287	8,435,990	1,140	48,321,239	172	5,741,420	655	29,226,042
Forging Machines	67	6,501,594	166	20,371,676	63	3,165,982	294	16,326,539
Other Metal Forming	324	9,293,053	1,368	43,906,862	568	12,219,709	2,150	79,240,688
TOTAL	7,564	$ 85,368,156	32,510	$460,339,023	6,061	$ 69,097,917	31,788	$379,381,963

1990 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE APR 90' - MAY 90' Units	% CHANGE APR 90' - MAY 90' Value	% CHANGE MAY 89' - MAY 90' Units	% CHANGE MAY 89' - MAY 90' Value	% CHANGE YTD 89' - YTD 90' Units	% CHANGE YTD 89' - YTD 90' Value
Used & Rebuilt & Under $2,500	14.80%	-10.75%	22.21%	29.13%	-1.74%	9.15%
Boring Machines	187.50	37.87	130.00	48.76	-55.17	-6.92
Drilling Machines	127.42	34.86	261.54	-44.08	296.55	21.32
Gear Cutting Machines	300.00	1,043.11	-5.88	148.19	8.99	40.44
Grinding Machiens	-23.53	-11.97	3.08	67.61	-4.71	35.15
Horizontal Lathes NC	10.26	-19.55	230.77	249.62	95.00	133.42
Vertical Lathes NC	-20.00	-6.17	300.00	206.65	500.00	369.51
Lathes Non-NC	-7.69	-53.25	62.16	-19.49	45.50	27.18
Milling Machines	18.75	-42.40	8.57	-26.82	-16.54	17.23
Machining Centers	-11.54	4.23	-17.86	39.71	75.22	80.95
Station Type Machines	0.00	317.31	-71.43	111.38	66.67	125.19
Other Metal Cutting	79.93	-14.57	189.82	58.59	64.43	76.77
Punching & Shearing Machines	45.95	74.98	118.92	12.70	36.95	18.78
Bending & Forming Machines	-19.77	-36.75	56.04	-45.45	47.71	10.58
Presses	50.26	-23.43	66.86	46.93	74.05	65.34
Forging Machines	157.69	103.29	6.35	105.36	-43.54	24.78
Other Metal Forming	59.61	-6.78	-42.96	-23.95	-36.37	-44.59
TOTAL	19.51	-0.12	24.80	23.55	2.27	21.34

1990 U.S. IMPORTS
BY PRODUCT GROUPS

	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	$ 15,101,348	66,011	$ 10,754,274	64,814	$ 11,170,439	83,714	$ 12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	$216,118,098	69,614	$154,026,349	68,854	$168,324,455	88,078	$194,391,971

	MAY 1990		MAY 90' Y-T-D TOTALS		MAY 1990		MAY 89' Y-T-D TOTALS	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	$ 13,702,955	376,171	$ 63,025,771	55,283	$ 15,897,111	229,141	$ 62,947,714
Boring Machines	63	2,378,706	248	11,517,651	56	2,914,892	370	28,019,463
Drilling Machines	105	1,412,575	602	17,084,288	198	8,206,249	814	41,285,212
Gear Cutting Machines	60	1,682,253	244	18,413,118	92	5,184,412	252	15,074,821
Grinding Machines	761	22,855,644	3,574	109,890,909	703	28,618,882	3,207	112,830,993
Horizontal Lathes NC	246	26,717,053	1,434	135,493,689	370	37,390,197	1,717	161,184,356
Vertical Lathes NC	12	2,697,583	60	10,572,341	21	3,192,456	68	8,363,554
Lathes Non-NC	684	8,838,746	3,555	46,797,099	406	7,181,037	2,201	34,603,860
Milling Machines	498	6,400,652	2,405	33,351,215	533	6,525,800	2,298	51,542,518
Machining Centers	212	21,375,164	1,456	174,723,155	293	31,263,982	1,394	150,297,223
Station Type Machines	9	5,207,130	90	23,926,275	19	4,417,149	83	22,737,593
Other Metal Cutting	477	14,389,120	2,216	72,282,490	450	16,125,897	2,108	82,329,631
Punching & Shearing Machines	168	5,567,876	749	29,120,417	103	4,809,616	658	28,756,978
Bending & Forming Machines	245	7,810,331	1,007	33,865,649	535	9,628,758	1,292	40,770,124
Presses	410	4,231,697	1,355	28,597,728	161	12,083,555	854	75,851,907
Forging Machines	46	3,389,713	422	27,216,350	155	9,299,745	750	44,364,964
Other Metal Forming	198	11,187,287	1,147	56,827,213	545	13,071,111	3,173	44,971,266
TOTAL	85,661	$159,844,485	396,735	$892,705,358	59,923	$215,810,849	250,380	$1,005,932,177

1990 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE APR 90' - MAY 90' Units	Value	% CHANGE MAY 89' - MAY 90' Units	Value	% CHANGE YTD 89' - YTD 90' Units	Value
Used & Rebuilt & Under $2,500	-2.68%	11.44%	47.36%	-13.80%	64.17%	0.12%
Boring Machines	34.04	30.61	12.50	-18.39	-32.97	-58.89
Drilling Machines	-7.08	-60.72	-46.97	-82.79	-26.04	-58.62
Gear Cutting Machines	76.47	-59.84	-34.78	-67.55	-3.17	22.14
Grinding Machines	3.26	8.57	8.25	-20.14	11.44	-2.61
Horizontal Lathes NC	-12.46	3.89	-33.51	-28.55	-16.48	-15.94
Vertical Lathes NC	100.00	85.40	-42.86	-15.50	-11.76	26.41
Lathes Non-NC	-29.92	-12.57	68.47	23.08	61.52	35.24
Milling Machines	-16.72	-16.80	-6.57	-1.92	4.66	-35.29
Machining Centers	-38.37	-56.36	-27.65	-31.63	4.45	16.25
Station Type Machines	-78.05	-36.44	-52.63	17.88	8.43	5.23
Other Metal Cutting	12.24	14.59	6.00	-10.77	5.12	-12.20
Punching & Shearing Machines	15.07	41.27	63.11	15.77	13.83	1.26
Bending & Forming Machines	15.02	23.53	-54.21	-18.89	-22.06	-16.94
Presses	197.10	-55.57	154.66	-64.98	58.67	-62.30
Forging Machines	-33.33	-13.21	-70.32	-63.55	-43.73	-38.65
Other Metal Forming	1.02	-14.21	-63.67	-14.41	-63.85	26.36
TOTAL	-2.74	-17.77	42.95	-25.93	58.45	-11.26

U.S. EXPORTS
Metal Cutting Machine Tools - May 90

RELEASED: August 1, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	35	2496	2	73
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	38	6946	7	1178
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	10	2043	2	257
100035	Horiz. mach. ctrs., ATC	26	7636	8	2217
100045	Mach. ctrs., n.e.c.	124	14650	6	1016
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	1	1100
300010	Multi-station transfer machines, NC	7	11259	1	1387
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	14	3447	1	69
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	148	11288	34	2801
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	20	3002	5	495
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	13	4289	3	849
190030	Horiz. engine or toolroom lathes, non-NC	60	1149	11	258
190050	Automatic bar and/or chucking mach., single spindle, non-NC	3	131	1	4
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	27	1233	0	0
190090	Horiz. lathes, n.e.c., non-NC	155	2019	30	340
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	14	657	2	46
915070	Vertical lathes, excl. VTL's, n.e.c., NC	14	1650	2	200
991050	Vertical turret lathes, non-NC	23	572	16	435
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	39	2808	2	69
8459100000	Way-type unit head machines	14	1957	0	0
210080	Other drilling machines, NC	49	4372	5	352
290040	Drilling machines, multiple spindle, non-NC	12	527	2	97
290050	Drilling machines, radial, non-NC	16	140	1	27
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	49	979	16	231
290090	Drilling machines, n.e.c., non-NC	334	2115	117	684
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	1481	2	1398
310070	Boring-milling mach., n.e.c., NC	5	213	1	27
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	2	250
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	9	629	8	582
400040	Boring machines, vertical, NC	2	899	1	210
400050	Boring machines, vertical, non-NC	25	415	7	160
400070	Boring machines, n.e.c., NC	7	2536	0	0
400080	Boring machines, n.e.c., non-NC	9	542	2	66
510080	Milling machines, knee type, NC	9	622	2	183
590030	Milling machines, knee type, non-NC	46	1450	9	361
610080	Milling machines, excl. knee type, n.e.c., NC	32	9563	4	769
690050	Milling machines, profile, dup., or die sinking, non-NC	21	496	0	0
690070	Milling machines, bed type, non-NC	1	50	1	50
690090	Milling machines, n.e.c., non-NC	113	4674	22	375
700020	Threading or tapping machines, n.e.c., NC	12	649	1	14
700080	Threading or tapping machines, n.e.c., non-NC	191	2000	68	549
8460110080	Flat surface grinding mach., NC	29	2343	10	400
190010	Flat surface grinding mach., recip.-table type, non-NC	28	553	2	62
190050	Flat surface grinding mach., n.e.c., non-NC	20	3318	4	861
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	45	14006	6	1306
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	15	2153	3	220
290030	Grinding mach., internal cylindrical, non-NC	20	2312	3	317
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	169	7135	21	940
310080	Sharpening machines (tool & cutter grinding), NC	11	1168	0	0
390050	Sharpening machines (tool & cutter grinding), non-NC	384	8811	41	1178
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	302	7570	39	1140
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	6	765	1	24
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	469	8234	104	2960
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	151	4982	26	507
200010	Shaping or slotting machines, NC	3	87	0	0
200090	Shaping or slotting machines, non-NC	20	536	1	3
300060	Broaching machines, NC	10	1139	0	0
300080	Broaching machines, non-NC	14	1158	3	117
401050	Gear hobbers	9	1140	1	301
401070	Gear shapers	16	2944	0	0
401090	Gear cutting machines, n.e.c.	34	10417	10	3423
405060	Gear grinding or finishing machines	38	2525	5	196
500050	Sawing or cutting-off machines, NC	72	1957	4	112
500090	Sawing or cutting-off machines, non-NC	636	8444	108	1020
9000000001	Metal cutting machine tools, n.e.c.	598	11888	271	2924
9800000001	Used or rebuilt machine tools	2042	25558	522	7276
9900000001	Machine tools valued at less than $2,500	14760	8730	3397	2028
	Cutting Total			4987	46491
	Y-T-D Cutting Total	21667	263308		
	NC Y-T-D Cutting Total*	820	115632		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	36
8457100015	0	0	0	0	1	132	0	0	4	790
100025	0	0	0	0	0	0	0	0	1	132
100035	0	0	0	0	2	388	0	0	4	841
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	69
110030	4	489	0	0	4	325	0	0	0	0
110050	0	0	0	0	4	414	0	0	1	81
110090	0	0	0	0	0	0	1	230	2	619
190030	1	29	0	0	0	0	0	0	1	84
190050	0	0	0	0	0	0	0	0	1	4
190070	0	0	0	0	0	0	0	0	0	0
190090	1	7	0	0	0	0	0	0	2	33
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	1	23	1	23
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	8	161
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	198
290040	0	0	0	0	0	0	0	0	2	97
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	2	11
290090	10	48	0	0	0	0	0	0	16	70
.0010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	2	250	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	2	183
400040	0	0	0	0	0	0	0	0	1	210
400050	0	0	0	0	0	0	0	0	2	63
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	16
510080	0	0	0	0	0	0	0	0	1	47
590030	4	144	0	0	0	0	0	0	1	19
610080	0	0	0	0	0	0	0	0	2	201
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	50
690090	0	0	0	0	0	0	0	0	4	56
700020	0	0	0	0	0	0	0	0	1	14
700080	0	0	0	0	1	109	0	0	18	147
8460110080	0	0	0	0	0	0	1	26	1	22
190010	0	0	0	0	0	0	0	0	2	62
190050	4	861	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	196	1	157
290010	0	0	0	0	0	0	0	0	1	112
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	8	255
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	16	215
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	47	0	0	0	0	6	73
900060	0	0	0	0	0	0	0	0	1	24
900080	2	25	0	0	0	0	0	0	31	271
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	99
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	381	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	3	83
500090	2	16	0	0	0	0	0	0	34	246
9000000001	0	0	0	0	0	0	0	0	34	231
9800000001	20	17	0	0	0	0	0	0	77	229
9900000001	60	78	15	10	56	49	231	7	353	363
Month Tot	110	1963	18	56	68	1417	236	862	652	6694
Y-T-D Tot	1017	9707	84	181	289	11026	462	7442	2645	60691
NC YTD Tot*	13	4758	1	23	82	9783	10	1620	208	36105

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	1	140
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	655	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	5	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	7	0	0	1	67
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	1	260	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	25
310080	0	0	0	0	0	0	0	0	0	0
390050	1	753	0	0	1	3	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	8	161	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	4	0	0	0	0	7	45
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	22
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	1	600	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	1	10	0	0	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	7	421
9800000001	1	22	1	9	41	355	0	0	0	0
9900000001	0	0	77	46	0	0	0	0	36	28
Month Tot	12	1595	81	668	45	625	0	0	55	747
Y-T-D Tot	144	10199	620	4675	213	8965	52	116	830	6556
NC YTD Tot*	23	6145	43	2900	10	3031	0	0	9	599

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	37	0	0
8457100015	0	0	1	115	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	1	712	0	0	0	0	0	0
100045	1	36	0	0	0	0	2	191	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	25	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	24	273	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	2	200	0	0
991050	0	0	0	0	0	0	2	43	0	0
995090	0	0	0	0	0	0	2	69	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	38	0	0	3	117	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	27	0	0
290070	0	0	0	0	0	0	13	84	0	0
290090	3	13	4	78	0	0	4	47	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	124	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	7	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	2	42	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	50	0	0
510080	0	0	0	0	0	0	1	136	0	0
590030	1	126	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	1	27	1	542
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	2	189	0	0	16	131	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	3	8	3	80
8460110080	0	0	0	0	0	0	8	352	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	342	0	0	0	0	1	90	0	0
290010	1	53	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	2	182	0	0	0	0	4	25	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	9	58	4	28	1	9	2	14	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	6	671	0	0	4	84	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	7	1271	2	21	0	0	17	999	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	3	46	2	284	0	0	19	141	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	3	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	18	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	3	2026	0	0	0	0	0	0
405060	0	0	2	163	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	1	28
500090	18	228	6	40	0	0	10	37	10	63
9000000001	0	0	1	9	0	0	7	54	0	0
9800000001	5	94	8	99	1	4	112	719	5	274
9900000001	199	140	163	61	9	13	735	280	12	8
Month Tot	251	2614	206	4534	11	26	1001	4430	32	994
Y-T-D Tot	1498	12633	795	21725	78	463	4088	23851	235	2277
NC YTD Tot*	40	4637	46	7748	0	0	88	5341	7	795

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	2	134	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	13	0	0	0	0	1	10	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	7	32	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	28	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	172	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	1	59	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	2	5	2	30	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	27	0	0	2	17	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	2	24	1	10	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	1	18	3	50	0	0
9000000001	6	470	7	547	18	116	0	0	0	0
9800000001	11	448	7	29	33	79	0	0	3	11
9900000001	35	30	0	0	33	26	58	52	9	8
Month Tot	58	1247	14	576	98	317	67	285	12	19
Y-T-D Tot	694	3180	140	2162	294	2375	391	3252	62	1053
NC YTD Tot*	10	520	24	998	2	419	14	944	2	122

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	1	125
100035	1	275	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	1100	0	0
300010	1	1387	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	22	1583	0	0	0	0	1	124	3	280
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	6	98	0	0	1	17	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	4	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	3	136	0	0	0	0	0	0	3	94
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	1	136
290090	0	0	0	0	0	0	0	0	70	323
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	1274
310070	0	0	0	0	0	0	0	0	1	27
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	5	393	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	3	55
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	18	0	0	0	0	0	0	1	27
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	14	38	3	9	26	158
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	374	0	0	0	0	0	0	1	147
290010	0	0	0	0	0	0	0	0	1	55
290030	0	0	0	0	0	0	2	57	0	0
290050	1	17	0	0	0	0	2	60	1	205
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	6	40	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	5	56	0	0	1	5	0	0	2	8
900060	0	0	0	0	0	0	0	0	0	0
900080	4	36	0	0	7	48	6	90	16	107
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	14
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	1	301	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	4	337	1	80	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	9	57	1	34	0	0	5	100	8	121
9000000001	3	12	0	0	1	14	1	9	186	1042
9800000001	12	465	0	0	3	26	13	3404	169	993
9900000001	136	81	0	0	49	21	299	123	832	605
Month Tot	207	4900	1	34	85	897	340	5196	1327	5796
Y-T-D Tot	2082	26865	15	3241	401	3214	1247	19036	3291	18424
NC YTD Tot*	95	17828	0	0	1	110	26	4029	66	7176

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

RELEASED: August 1, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	167	5365	51	1035
8462100030	Headers and upsetters, including cold headers	25	8549	8	1853
100050	Forging or die stamping machines, and hammers, n.e.c.	141	11823	59	4649
210080	Bending, folding, straight. or flat. mach., incl presses, NC	120	10183	15	1099
290030	Press brakes, non-NC	97	2200	18	159
290040	Bending rolls, non-NC	41	902	16	188
290050	Bending, folding, straight., or flat., n.e.c., non-NC	451	11904	93	2603
310080	Shearing machines, NC	38	3187	12	874
390050	Shearing machines, non-NC	160	3240	27	312
410080	Punching or notching mach., incl. comb. punch & shear, NC	87	14412	23	2682
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	371	9299	100	2711
910060	Hydraulic presses, NC	34	2452	8	420
910090	Hydraulic presses, non-NC	322	14523	73	1730
990030	Presses, n.e.c., NC	68	6834	27	2418
990040	Presses, mechanical, non-NC	43	4494	2	69
990060	Presses, n.e.c., non-NC	673	20018	177	3799
8463100080	Draw benches for bars, tubes, profiles, wire or the like	76	1594	16	204
200080	Thread rolling machines	26	1371	2	397
300080	Machines for working wire	284	9933	86	1777
900080	Metal forming machine tools, n.e.c.	815	25643	169	5880
9800000002	Used or rebuilt machine tools	1366	24959	255	3109
9900000002	Machine tools valued at less than $2,500	5438	4144	1340	910

	TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
Forming Total			2577	38877
Y-T-D Forming Total	10843	197031		
NC Y-T-D Forming Total	347	37068		
Cutting and Forming Totals:				
Monthly Total			7564	85368
Y-T-D Total	32510	460339		
NC Y-T-D Total*	1167	152701		

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
1000000000	Machine tool parts and accessories	0	306063	0	61844
2000000000	Parts for working rubber or plastics - heading 8477	0	122658	0	27072
2710003070	Quenching or cutting oils	0	8452	0	958
8428900010	Industrial robots for lifting, handling, loading or unload	151	2455	63	863
8431390090	Parts industrial robots, handling and loading - heading 8428	0	31930	0	6346
8456100000	Laser, light or photon beam for working any material	342	17167	114	4186
200000	Ultrasonic process for working any material	47	1140	16	367
8477106010	Injection molding mach., for rubber or oth. thermosetting	79	6138	16	1125
106070	Injection molding mach., for thermoplastics	149	18191	30	3493
200010	Extruders for rubber or other thermosetting materials	186	7387	53	2146
200050	Extruders for processing thermoplastics	364	16647	58	2485
300000	Blow molding machines	211	16824	76	5223
400000	Vacuum-molding and other thermoforming machines	4178	7093	40	1172
510010	Machines for molding or retreading pneumatic tires	445	8831	181	2038
510090	Machines for molding or otherwise forming inner tubes	173	22794	48	14662
590000	Machines for molding or otherwise forming n.e.c.	602	10596	153	3728
800000	Machines for working rubber or plastics n.e.c.	1674	44948	360	10609
8479899040	Industrial robots, n.e.c.	2584	24635	315	2297
908040	Industrial robot parts	0	14910	0	1707
8537100030	Numerical controls for controlling machine tools	952	13307	206	2787
9024100000	Machines and appliances for testing metals	0	29388	0	5051
9031100000	Machines for balancing mechanical parts	0	13954	0	2751
300000	Profile projectors	0	3039	0	654
9032810040	Industrial process control instr., hydraulic or pneumatic	262571	16338	49593	3338

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	1	16	0	0	2	459
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	2	69
210080	1	24	0	0	0	0	0	0	3	654
290030	0	0	0	0	0	0	0	0	15	109
290040	0	0	0	0	0	0	0	0	4	58
290050	2	29	0	0	0	0	0	0	26	214
310080	0	0	0	0	0	0	0	0	4	477
390050	6	95	0	0	0	0	0	0	2	13
410080	0	0	0	0	0	0	0	0	6	363
490050	0	0	1	811	3	33	0	0	17	280
910060	1	10	0	0	0	0	0	0	1	182
910090	0	0	0	0	3	132	0	0	1	106
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	4	112	7	106
8463100080	0	0	0	0	2	30	0	0	1	6
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	13	0	0	21	509	5	207
900080	0	0	0	0	0	0	0	0	13	326
9800000002	2	15	0	0	0	0	0	0	40	711
9900000002	11	9	0	0	9	7	18	15	225	202
Month Tot	23	183	2	824	18	217	43	635	374	4543
Y-T-D Tot	192	2834	36	1603	106	1673	281	2293	1801	29431
NC YTD Tot	17	1416	0	0	0	0	6	438	76	9607
C&F Month	133	2146	20	880	86	1635	279	1497	1026	11237
C&F Y-T-D	1209	12541	120	1784	395	12700	743	9736	4446	90122
C&F NC YTD*	30	6173	1	23	82	9783	16	2058	284	45712

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	2026	0	173	0	1230	0	304	0	13435
2000000000	0	228	0	90	0	459	0	265	0	6512
2710003070	0	3	0	0	0	0	0	15	0	100
8428900010	0	0	0	0	0	0	0	0	15	359
8431390090	0	502	0	0	0	33	0	5	0	1057
8456100000	0	0	0	0	2	164	0	0	0	0
200000	0	0	0	0	0	0	0	0	3	57
8477106010	1	38	0	0	0	0	0	0	1	37
106070	1	40	0	0	0	0	2	167	14	2210
200010	0	0	0	0	0	0	0	0	48	1505
200050	0	0	0	0	0	0	0	0	9	214
300000	0	0	0	0	0	0	0	0	1	207
400000	0	0	0	0	4	35	0	0	4	332
510010	3	934	0	0	0	0	1	108	1	17
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	31	479	0	0	3	64
800000	2	26	2	35	1	20	0	0	75	2250
8479899040	0	0	0	0	0	0	0	0	186	1110
908040	0	25	0	0	0	9	0	0	0	1065
8537100030	2	17	0	0	1	31	0	0	5	55
9024100000	0	41	0	0	0	27	0	13	0	990
9031100000	0	67	0	0	0	33	0	0	0	1019
300000	0	0	0	0	0	0	0	143	0	3
9032810040	1412	155	812	41	1205	60	0	0	2119	102

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	30	325	0	0	4	44	0	0	0	0
8462100030	0	0	1	990	0	0	0	0	1	401
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	8	78
290050	0	0	2	76	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	1	103	0	0	0	0	0	0
490050	2	22	0	0	0	0	0	0	1	76
910060	0	0	0	0	0	0	0	0	0	0
910090	5	177	0	0	0	0	0	0	2	83
990030	0	0	13	1294	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	2	13	1	39	0	0	5	133
8463100080	0	0	1	37	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	15	4	57	0	0	0	0	1	45
900080	6	742	0	0	10	60	0	0	5	1015
9800000002	0	0	2	40	0	0	0	0	0	0
9900000002	35	9	37	28	5	3	0	0	11	9
Month Tot	79	1290	63	2639	20	146	0	0	34	1839
Y-T-D Tot	154	8183	255	8743	253	5099	6	31	130	5232
NC YTD Tot	3	2629	32	3862	0	0	0	0	3	589
C&F Month	91	2886	144	3308	65	770	0	0	89	2585
C&F Y-T-D	298	18382	875	13417	466	14064	58	147	960	11788
C&F NC YTD*	26	8773	75	6763	10	3031	0	0	12	1188

Other Manufacturing Technology

1000000000	0	286	0	2041	0	159	0	782	0	1166
2000000000	0	8	0	732	0	105	0	34	0	144
2710003070	0	0	0	0	0	0	0	0	0	4
8428900010	0	0	11	188	0	0	0	0	0	0
8431390090	0	56	0	169	0	39	0	4	0	210
8456100000	4	248	0	0	0	0	0	0	1	350
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	47
106070	0	0	1	83	0	0	0	0	1	104
200010	0	0	0	0	0	0	0	0	0	0
200050	8	202	0	0	1	257	1	72	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	9	135	25	398	0	0	0	0
800000	2	1784	0	0	14	150	0	0	0	0
8479899040	1	58	17	110	0	0	0	0	22	132
908040	0	43	0	166	0	5	0	0	0	17
8537100030	0	0	43	567	0	0	0	0	9	161
9024100000	0	29	0	163	0	54	0	0	0	259
9031100000	0	0	0	0	0	0	0	0	0	16
300000	0	0	0	0	0	0	0	0	0	32
9032810040	959	48	1993	100	110	8	0	0	3035	379

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	104	4	19	1	6	2	14
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	2	83	0	0	2	80	0	0
210080	0	0	3	113	0	0	1	47	0	0
290030	0	0	0	0	0	0	2	28	0	0
290040	0	0	0	0	0	0	3	44	0	0
290050	0	0	8	201	4	26	32	1430	0	0
310080	3	160	1	54	0	0	1	25	2	97
390050	0	0	0	0	0	0	19	203	0	0
410080	0	0	0	0	0	0	0	0	1	239
490050	30	584	0	0	0	0	8	156	0	0
910060	0	0	1	51	0	0	3	162	0	0
910090	1	6	7	249	0	0	31	336	0	0
990030	0	0	12	760	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	32	1387	7	51	0	0	83	714	22	130
8463100080	0	0	0	0	0	0	7	41	0	0
200080	0	0	0	0	0	0	1	292	0	0
300080	2	76	0	0	0	0	24	349	0	0
900080	6	1182	3	70	1	58	32	1073	1	14
9800000002	1	12	3	224	0	0	84	930	0	0
9900000002	248	64	64	12	0	0	282	282	10	4
Month Tot	323	3471	112	1972	9	103	616	6199	38	498
Y-T-D Tot	922	17155	346	16872	35	1711	2658	24343	138	3267
NC YTD Tot	16	2740	28	2061	2	65	43	2930	19	1822
C&F Month	574	6085	318	6505	20	129	1617	10629	70	1492
C&F Y-T-D	2420	29788	1141	38597	113	2173	6746	48194	373	5544
C&F NC YTD*	56	7377	74	9810	2	65	131	8271	26	2617

Other Manufacturing Technology

1000000000	0	6900	0	2030	0	327	0	3253	0	925
2000000000	0	605	0	1539	0	174	[illegible]	2938	0	458
2710003070	0	33	0	0	0	0	0	32	0	0
8428900010	0	0	2	36	0	0	7	43	0	0
8431390090	0	172	0	163	0	33	0	985	0	136
8456100000	75	2172	2	138	0	0	0	0	6	150
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	11	883	0	0
106070	1	31	3	224	0	0	0	0	0	0
200010	0	0	0	0	0	0	4	609	0	0
200050	2	16	1	16	0	0	12	433	0	0
300000	1	1394	2	172	0	0	51	1667	0	0
400000	19	23	3	679	1	12	2	40	0	0
510010	1	6	0	0	0	0	8	38	0	0
510090	2	135	0	0	0	0	4	116	2	11
590000	12	198	1	3	0	0	16	188	0	0
800000	60	219	9	1293	1	8	47	825	99	452
8479899040	11	51	1	5	0	0	5	141	1	48
908040	0	82	0	36	0	0	0	0	0	4
8537100030	1	17	9	125	1	9	0	0	0	0
9024100000	0	513	0	381	0	26	0	128	0	5
9031100000	0	16	0	1248	0	0	0	110	0	0
300000	0	238	0	174	0	0	0	0	0	0
9032810040	3931	230	1256	108	0	0	266	49	9248	474

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	3	113	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	3	247	0	0	1	20	0	0	3	152
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	8	128	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	6	0	0	0	0	1	17	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	2	7	4	192	0	0	0	0	4	119
900080	0	0	0	0	0	0	4	100	0	0
9800000002	8	241	1	25	0	0	0	0	0	0
9900000002	44	49	8	7	21	18	0	0	0	0
Month Tot	58	549	21	352	22	37	8	229	7	270
Y-T-D Tot	223	2787	49	1642	127	1010	160	7701	41	747
NC YTD Tot	4	261	3	115	1	30	20	1475	1	68
C&F Month	116	1796	35	828	120	355	75	513	19	290
C&F Y-T-D	917	5967	189	3803	421	3385	551	10954	103	1800
C&F NC YTD*	14	781	27	1113	3	449	34	2419	3	190

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	696	0	371	0	851	0	1156	0	78
2000000000	0	189	0	157	0	233	0	1139	0	308
2710003070	0	24	0	13	0	3	0	33	0	12
8428900010	17	62	0	0	0	0	0	0	0	0
8431390090	0	182	0	5	0	0	0	36	0	0
8456100000	0	0	2	48	0	0	0	0	0	0
200000	0	0	2	53	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	2	156	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	7	77
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	5	130	0	0	1	14	0	0
510090	0	0	0	0	0	0	12	230	0	0
590000	1	7	2	21	14	224	9	515	0	0
800000	1	10	0	0	7	307	0	0	0	0
8479899040	6	34	3	72	4	40	0	0	0	0
908040	0	0	0	6	0	12	0	11	0	0
8537100030	16	227	1	7	3	40	1	18	0	0
9024100000	0	134	0	452	0	171	0	178	0	0
9031100000	0	144	0	14	0	0	0	0	0	0
300000	0	14	0	21	0	0	0	26	0	0
9032810040	1394	136	1074	59	244	12	956	153	4710	14

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	6	48
8462100030	0	0	0	0	0	0	6	462	0	0
100050	47	3997	0	0	0	0	0	0	6	420
210080	3	102	0	0	0	0	0	0	1	45
290030	0	0	0	0	0	0	0	0	1	22
290040	0	0	0	0	0	0	0	0	1	9
290050	1	5	0	0	0	0	7	181	4	22
310080	1	62	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	1	235	0	0	0	0	6	544	8	1199
490050	26	308	2	132	0	0	0	0	10	309
910060	2	15	0	0	0	0	0	0	0	0
910090	0	0	9	343	1	7	0	0	5	163
990030	0	0	1	136	0	0	0	0	1	227
990040	1	21	0	0	0	0	0	0	1	48
990060	0	0	0	0	1	32	5	925	6	135
8463100080	5	90	0	0	0	0	0	0	0	0
200080	1	104	0	0	0	0	0	0	0	0
300080	9	102	0	0	2	41	1	18	5	27
900080	73	906	0	0	0	0	6	111	9	223
9800000002	18	87	0	0	3	105	17	338	76	383
9900000002	82	44	0	0	69	14	99	79	62	55
Month Tot	270	6079	12	612	76	198	147	2659	202	3334
Y-T-D Tot	813	16383	12	612	145	526	770	11432	1190	25720
NC YTD Tot	22	3036	1	136	1	28	9	926	40	2833
C&F Month	477	10979	13	645	161	1095	487	7854	1529	9131
C&F Y-T-D	2895	43248	27	3853	546	3740	2017	30469	4481	44144
C&F NC YTD*	117	20864	1	136	2	138	35	4955	106	10009

Other Manufacturing Technology

1000000000	0	5812	0	0	0	1609	0	6531	0	9701
2000000000	0	2042	0	0	0	298	0	3274	0	5141
2710003070	0	4	0	0	0	0	0	0	0	682
8428900010	0	0	0	0	0	0	10	163	1	13
8431390090	0	355	0	0	0	41	0	9	0	2154
8456100000	0	0	0	0	0	0	2	417	20	498
200000	10	244	0	0	0	0	0	0	1	14
8477106010	0	0	0	0	1	40	1	80	0	0
106070	3	321	0	0	0	0	0	0	2	158
200010	0	0	0	0	0	0	0	0	1	32
200050	17	308	0	0	0	0	0	0	7	967
300000	4	1521	0	0	1	24	8	147	1	15
400000	6	43	0	0	0	0	0	0	1	8
510010	1	79	0	0	9	164	0	0	151	549
510090	0	0	0	0	0	0	1	4	27	14168
590000	3	50	0	0	0	0	18	1004	9	441
800000	13	584	0	0	0	0	1	162	26	2483
8479899040	12	73	0	0	0	0	40	343	6	80
908040	0	101	0	0	0	0	0	50	0	73
8537100030	82	1092	0	0	0	0	22	285	10	137
9024100000	0	357	0	0	0	7	0	386	0	737
9031100000	0	0	0	0	0	0	0	28	0	56
300000	0	0	0	0	0	0	0	0	0	3
9032810040	4569	557	0	0	312	31	1949	125	8039	499

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

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U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	1	205	0	0	1	205
Czechoslovakia	0	0	0	0	0	0
Denmark	4	3	0	0	4	3
East Germany	0	0	0	0	0	0
Finland	124	22	4	25	128	47
Greece	222	722	19	204	241	926
Hungary	6	104	3	360	9	464
Iceland	0	0	0	0	0	0
Ireland	2	59	12	19	14	78
Luxembourg	0	0	0	0	0	0
Norway	2	13	1	5	3	17
Poland	0	0	2	3	2	3
Portugal	12	8	2	457	14	465
Romania	0	0	0	0	0	0
Sweden	63	566	3	72	66	639
Turkey	4	36	3	14	7	50
Yugoslavia	1	105	0	0	1	105
Oth Europe	0	0	0	0	0	0
TOTAL	1355	16747	676	16915	2031	33662
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	1	10	0	0	1	10
Belize	0	0	0	0	0	0
Bermuda	10	6	0	0	10	6
Costa Rica	147	257	1	17	148	275
Dominican Rep	8	11	6	22	14	33
El Salvador	0	0	4	55	4	55
Guatemala	0	0	3	34	3	34
Haiti	0	0	0	0	0	0
Honduras	1	3	2	41	3	44
Jamaica	0	0	1	22	1	22
Panama	5	3	0	0	5	3
Trinidad	0	0	0	0	0	0
Oth N & C Am.	1	30	0	0	1	30
TOTAL	1826	11444	1007	10932	2833	22376
SOUTH AMERICA						
Argentina	0	0	12	222	12	222
Bolivia	0	0	0	0	0	0
Chile	32	230	52	806	84	1035
Colombia	16	93	7	46	23	139
Ecuador	8	63	0	0	8	63
Paraguay	0	0	0	0	0	0
Peru	0	0	1	6	1	6
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	377	2145	191	1913	568	4058
OCEANIA						
New Zealand	4	17	0	0	4	17
Oth Oceania	0	0	1	45	1	45
TOTAL	114	1980	24	228	138	2208

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 90

ASIA

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
Bangladesh	0	0	0	0	0	0
Hong Kong	316	587	9	67	325	655
Iran	0	0	21	18	21	18
Iraq	0	0	0	0	0	0
Israel	41	1815	2	168	43	1983
Jordan	0	0	0	0	0	0
Kuwait	0	0	5	5	5	5
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	150	392	1	38	151	430
Qatar	0	0	0	0	0	0
Saudi Arabia	89	43	7	448	96	491
Sri Lanka	0	0	0	0	0	0
Syria	0	0	1	6	1	6
United Arab Emr	7	18	0	0	7	18
Vietnam	0	0	0	0	0	0
Oth Asia	1	15	1	15	2	30
TOTAL	1266	13815	663	8795	1929	22609

AFRICA

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	13	19	12	10	25	29
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	1	4	1	4	2	8
South Africa	33	332	3	80	36	412
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	2	5	0	0	2	5
Oth Africa	0	0	0	0	0	0
TOTAL	49	361	16	94	65	455

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: August 1, 1990

U.S. IMPORTS - Metal Cutting Machine Tools - May 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	439	27269	75	6291
301050	Electro-discharge machines, n.e.c., NC	89	5187	19	1318
301070	Electro-discharge machines, n.e.c., non-NC	174	3684	58	1083
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	979	78415	156	11427
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	62	11831	14	1603
100035	Horiz. mach. ctrs., ATC	311	70774	22	5426
100045	Mach. ctrs., n.e.c.	104	13703	20	2918
200010	Unit construction mach. (single station transfer), NC	13	1295	0	0
200090	Unit construction mach. (single station transfer), non-NC	1	361	1	361
300010	Multi-station transfer machines, NC	28	7977	3	179
300090	Multi-station transfer machines, non-NC	48	14293	5	4667
8458110010	Horiz. lathes, multiple spindle, NC	120	20007	20	4578
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1034	73408	182	14114
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	252	35724	38	6734
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	28	6355	6	1291
190030	Horiz. engine or toolroom lathes, non-NC	1779	16953	358	3563
190050	Automatic bar and/or chucking mach., single spindle, non-NC	514	10016	49	1675
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	65	3944	3	100
190090	Horiz. lathes, n.e.c., non-NC	752	7037	230	1241
911060	Vertical turret lathes, multiple spindle, NC	18	3099	3	649
911080	Vertical turret lathes, n.e.c., NC	13	4153	4	1684
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	29	3320	5	364
991050	Vertical turret lathes, non-NC	61	1720	4	396
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	384	7128	40	1863
8459100000	Way-type unit head machines	0	0	0	0
210080	Other drilling machines, NC	142	9383	12	659
290040	Drilling machines, multiple spindle, non-NC	54	1317	12	169
290050	Drilling machines, radial, non-NC	189	1443	24	242
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	42	420	17	99
290090	Drilling machines, n.e.c., non-NC	175	4522	40	243
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	439	1	142
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	29	3017	3	372
310070	Boring-milling mach., n.e.c., NC	18	767	1	110
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	16	1496	7	822
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	46	1208	15	188
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	34	1045	20	555
400070	Boring machines, n.e.c., NC	13	1339	4	43
400080	Boring machines, n.e.c., non-NC	89	2207	12	149
510080	Milling machines, knee type, NC	311	4450	81	683
590030	Milling machines, knee type, non-NC	1620	10959	313	1964
610080	Milling machines, excl. knee type, n.e.c., NC	133	7334	42	1302
690050	Milling machines, profile, dup., or die sinking, non-NC	32	320	1	7
690070	Milling machines, bed type, non-NC	34	1815	7	783
690090	Milling machines, n.e.c., non-NC	275	8473	54	1662
700020	Threading or tapping machines, n.e.c., NC	78	4089	16	865
700080	Threading or tapping machines, n.e.c., non-NC	84	2223	23	1014
8460110080	Flat surface grinding mach., NC	73	5846	6	1928
190010	Flat surface grinding mach., recip.-table type, non-NC	417	5612	85	1131
190050	Flat surface grinding mach., n.e.c., non-NC	932	9668	185	2922
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	190	34457	36	6104
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	215	6008	34	640
290030	Grinding mach., internal cylindrical, non-NC	37	3779	4	585
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	509	16712	176	4476
310080	Sharpening machines (tool & cutter grinding), NC	108	2095	17	452
390050	Sharpening machines (tool & cutter grinding), non-NC	395	4763	102	1207
400060	Honing or lapping machines, NC	18	1824	6	522
400080	Honing or lapping machines, non-NC	88	2967	17	978
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	24	1253	5	102
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	568	14907	88	1808
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	1	5	0	0
200010	Shaping or slotting machines, NC	68	2347	3	52
200090	Shaping or slotting machines, non-NC	116	1668	36	527
300060	Broaching machines, NC	2	5118	0	0
300080	Broaching machines, non-NC	55	1369	1	116
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	75	4985	48	697
401040	Gear shapers	11	3180	1	168
401060	Gear cutting machines, n.e.c.	64	420	0	0
405050	Gear grinding or finishing for bevel gears	55	626	0	0
405070	Gear grinding or finishing machines, n.e.c.	39	9203	11	817
500050	Sawing or cutting-off machines, NC	54	2975	6	89
500090	Sawing or cutting-off machines, non-NC	872	12182	190	2334
9000000001	Metal cutting machine tools, n.e.c.	184	4166	50	700
9800000001	Used or rebuilt machine tools	1416	12149	120	2542
9900000001	Machine tools valued at less than $2,500	367804	39529	79728	8513
	Cutting Total			82975	125010
	Y-T-D Cutting Total	385104	705730		
	NC Y-T-D Cutting Total	4789	449464		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - May 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	1	130	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	29	6	701	1	260	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	3	1651	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	189	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	46	394	5	57	1	47	0	0
190050	0	0	2	41	1	13	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	156	846	7	23	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	2	5	0	0
995090	0	0	5	19	6	18	3	11	1	9
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	11	101	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	22	0	0	0	0
310010	0	0	0	0	0	0	1	142	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	2	777	0	0
390050	0	0	0	0	0	0	0	0	14	185
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	5	36
400070	0	0	0	0	0	0	0	0	4	43
400080	0	0	0	0	5	85	0	0	7	64
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	9	625	17	154
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	1	5	0	0	2	54
190010	0	0	0	0	0	0	0	0	3	92
190050	0	0	0	0	10	43	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	54
290010	0	0	0	0	12	107	0	0	1	33
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	5	0	0	4	72
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	4	26	0	0	0	0
400060	0	0	0	0	0	0	0	0	1	150
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	3	44	13	51	14	252
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	1	27
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	36	115	24	252	1	4	27	137
9000000001	0	0	0	0	3	51	14	274	7	46
9800000001	2	346	0	0	16	169	0	0	3	12
9900000001	1	2	121	62	38	33	122	158	1714	421
Month Tot	3	348	378	1606	147	3305	172	2671	1826	1841
Y-T-D Tot	26	941	1218	7058	763	10741	778	10599	17217	24813
NC YTD Tot	2	110	2	464	24	2610	43	5008	56	6160

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - May 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	60	4737	0	0	0	0	0	0	0	0
301050	19	1318	0	0	0	0	0	0	0	0
301070	3	66	0	0	0	0	0	0	0	0
8457100015	81	7353	7	379	19	811	0	0	0	0
100025	5	837	0	0	0	0	0	0	0	0
100035	20	5198	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	83	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	361	0	0	0	0	0	0	0	0
300010	0	0	3	179	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	16	3326	0	0	0	0	0	0	0	0
110030	148	12303	12	730	0	0	0	0	0	0
110050	32	5678	0	0	0	0	0	0	0	0
110090	3	646	0	0	0	0	1	147	0	0
190030	2	7	0	0	34	437	1	48	0	0
190050	7	549	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	3	90	0	0	0	0	0	0	0	0
911060	1	379	0	0	0	0	0	0	0	0
911080	4	1684	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	2	187	0	0	0	0	0	0	0	0
991050	1	170	0	0	0	0	0	0	0	0
995090	0	0	5	383	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	11	644	0	0	0	0	0	0	0	0
290040	11	167	0	0	0	0	0	0	0	0
290050	2	54	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	13	55	0	0
290090	3	8	0	0	0	0	29	129	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	247	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	1	157	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	40	210	0	0
590030	0	0	0	0	0	0	111	972	0	0
610080	0	0	0	0	1	41	0	0	0	0
690050	1	7	0	0	0	0	0	0	0	0
690070	2	93	0	0	0	0	0	0	0	0
690090	5	17	0	0	0	0	0	0	0	0
700020	16	865	0	0	0	0	0	0	0	0
00080	14	762	0	0	0	0	0	0	0	0
8460110080	1	72	0	0	0	0	0	0	0	0
190010	3	117	0	0	36	597	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	18	3797	0	0	0	0	0	0	0	0
290010	1	76	0	0	0	0	0	0	0	0
290030	2	146	0	0	0	0	0	0	0	0
290050	15	1268	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	11	70	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	4	543
900060	2	41	0	0	0	0	0	0	0	0
900080	22	- 321	0	0	0	0	2	229	1	7
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	3	52	0	0	0	0	0	0	0	0
200090	4	52	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	116	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	4	374	0	0	0	0	0	0	0	0
401040	1	168	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	13	431	0	0	0	0	0	0	1	22
9000000001	3	29	2	21	0	0	1	7	0	0
9800000001	13	559	0	0	0	0	0	0	3	12
9900000001	4530	671	1443	132	31	5	21	9	243	190
Month Tot	5121	56024	1472	1824	122	1974	220	2052	252	775
Y-T-D Tot	26160	357873	2630	8627	497	9747	1032	10195	1071	4769
NC YTD Tot	2877	313415	69	4850	99	5127	76	1412	6	1445

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - May 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	15	1554	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	10	193	15	106	0	0	1	41	29	678
8457100015	0	0	11	749	35	1892	1	75	1	38
100025	0	0	9	767	0	0	0	0	0	0
100035	0	0	1	150	0	0	1	79	0	0
100045	0	0	0	0	0	0	8	1781	3	65
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	259	0	0	0	0	1	2758	0	0
8458110010	0	0	0	0	0	0	4	1253	0	0
110030	0	0	14	724	4	197	0	0	4	159
110050	2	610	1	72	1	186	0	0	0	0
110090	0	0	0	0	0	0	2	498	0	0
190030	0	0	94	716	36	524	0	0	139	1335
190050	4	421	33	258	1	101	1	292	0	0
190070	3	100	0	0	0	0	0	0	0	0
190090	0	0	18	48	6	88	1	4	39	142
911060	2	270	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	3	177	0	0	0	0	0	0	0	0
991050	1	221	0	0	0	0	0	0	0	0
995090	5	804	2	151	8	162	3	299	2	7
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	15	0	0
290040	0	0	0	0	0	0	1	3	0	0
290050	0	0	3	25	0	0	0	0	8	62
290070	0	0	0	0	0	0	3	40	1	5
290090	0	0	0	0	0	0	4	77	2	6
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	2	125
310070	0	0	0	0	0	0	1	110	0	0
390040	0	0	0	0	0	0	0	0	5	45
390050	0	0	1	3	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	12	53	0	0	1	257	1	51
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	30	230	5	163	0	0	6	81
590030	0	0	146	790	0	0	0	0	56	202
610080	0	0	23	438	3	234	5	517	10	72
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	1	20	0	0	1	629	3	41
690090	0	0	15	68	1	5	4	245	3	547
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	9	252	0	0
8460110080	0	0	0	0	2	1798	0	0	0	0
190010	0	0	25	69	0	0	18	257	0	0
190050	4	280	139	1135	6	113	11	1175	15	175
210080	6	547	0	0	2	1269	9	437	0	0
290010	2	173	0	0	8	152	0	0	10	98
290030	1	42	0	0	0	0	1	397	0	0
290050	3	253	19	69	8	121	122	2622	4	66
310080	0	0	3	8	0	0	12	300	2	144
390050	6	46	36	149	26	189	11	647	8	79
400060	0	0	0	0	3	147	2	225	0	0
400080	0	0	0	0	7	106	6	329	0	0
900060	0	0	0	0	0	0	0	0	3	62
900080	2	242	0	0	10	46	8	474	13	143
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	26	268	0	0	1	3	5	203	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	43	296	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	685	0	0	1	37	3	29	6	66
500050	0	0	6	89	0	0	0	0	0	0
500090	1	4	5	25	13	95	46	1062	23	188
9000000001	1	79	0	0	5	53	1	88	13	52
9800000001	6	48	19	27	19	702	14	441	25	225
9900000001	53	48	57173	5505	241	144	505	256	13492	877
Month Tot	158	7324	57854	12444	452	8526	870	18461	13928	5834
Y-T-D Tot	820	31590	271444	55424	2566	44157	8223	100308	50659	28887
NC YTD Tot	182	11254	464	13713	342	28422	343	46662	204	8811

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

RELEASED: August 1, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	179	9814	55	1986
8462100030	Headers and upsetters, including cold headers	76	6927	7	2016
100050	Forging or die stamping machines, and hammers, n.e.c.	346	20289	39	1373
210080	Bending, folding, straight. or flat. mach., incl presses, NC	284	13434	76	4405
290030	Press brakes, non-NC	121	3314	24	759
290040	Bending rolls, non-NC	53	1547	15	445
290050	Bending, folding, straight., or flat., n.e.c., non-NC	549	15570	130	2201
310080	Shearing machines, NC	31	1816	6	458
390050	Shearing machines, non-NC	238	5797	54	1129
410080	Punching or notching mach., incl. comb. punch & shear, NC	153	15978	30	2431
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	327	5529	78	1551
910060	Hydraulic presses, NC	10	3337	1	616
910090	Hydraulic presses, non-NC	922	7189	307	558
990030	Presses, n.e.c., NC	42	3586	1	34
990035	Mechanical transfer presses, non-NC	3	2169	1	100
990045	Mechanical presses, n.e.c., non-NC	51	1263	1	8
990060	Presses, n.e.c., non-NC	327	11053	99	2915
8463100080	Draw benches for bars, tubes, profiles, wire or the like	26	1615	9	816
200080	Thread rolling machines	42	2148	3	138
300080	Machines for working wire	699	33120	90	4536
900080	Metal forming machine tools, n.e.c.	201	10130	41	3711
9800000002	Used or rebuilt machine tools	593	8767	307	2154
9900000002	Machine tools valued at less than $2,500	6358	2582	1312	494
	Forming Total			2686	34834
	Y-T-D Forming Total	11631	186976		
	NC Y-T-D Forming Total	520	38152		
	Cutting and Forming Totals:				
	Monthly Total			85661	159844
	Y-T-D Total	396735	892705		
	NC Y-T-D Total	5309	487616		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	236320	0	43070
2000000000	Parts for working rubber or plastics - heading 8477	0	139980	0	25313
2710003070	Quenching or cutting oils	0	167	0	91
8428900010	Industrial robots for lifting, handling, loading or unload	1151	20804	104	3443
8431390080	Parts industrial robots, handling and loading - heading 8428	0	36984	0	5477
8456101010	Laser, light or photon beam for working metal, NC	80	14381	17	2622
101020	Laser, light or photon beam for working metal, non-NC	41	1439	7	869
105000	Laser, light or photon beam for other materials	57	2892	6	1094
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	2	22	0	0
205000	Ultrasonic processes for working other materials	5	187	1	3
8477103000	Injection molding mach., for manufacturing shoes	92	2015	18	504
106010	Injection molding mach., for rubber or oth. thermosetting	373	30558	55	6407
106050	Injection molding mach., for thermoplastics	1133	107720	187	17590
200010	Extruders for rubber or other thermosetting materials	86	5999	22	639
200050	Extruders for processing thermoplastics	427	26291	111	4654
300000	Blow molding machines	174	16151	22	2417
400000	Vacuum-molding and other thermoforming machines.	74	1990	10	144
510010	Machines for molding or retreading pneumatic tires	302	25263	35	3198
510090	Machines for molding or otherwise forming inner tubes	115	7299	18	1341
590000	Machines for molding or otherwise forming n.e.c.	472	31324	217	3775
800000	Machines for working rubber or plastics n.e.c.	3757	48510	770	7884
8479899040	Industrial robots, n.e.c.	9706	32104	638	7693
908040	Industrial robot parts	0	13531	0	2489
8537100030	Numerical controls for controlling machine tools	6885	22863	1024	6950
9024100000	Machines and appliances for testing metals	0	5473	0	1781
9031100000	Machines for balancing mechanical parts	0	4448	0	2244
300000	Profile projectors	0	2427	0	402
9032810020	Industrial process control instr., hydraulic	63621	821	9591	197
810060	Industrial process control instr., pneumatic	62143	1941	13252	334

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	15	7	0	0	21	877	0	0	13	337
8462100030	1	1273	0	0	0	0	0	0	2	459
100050	0	0	0	0	4	24	0	0	4	57
210080	1	685	0	0	7	316	0	0	2	218
290030	0	0	0	0	23	750	0	0	0	0
290040	0	0	0	0	0	0	1	367	9	28
290050	1	4	0	0	17	221	40	132	10	96
310080	1	44	0	0	1	9	0	0	0	0
390050	7	136	0	0	6	224	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	5	363	0	0	26	333
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	5	328	0	0	20	5
990030	0	0	0	0	0	0	0	0	1	34
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	1	8	0	0	0	0
990060	0	0	0	0	37	1953	8	31	25	215
8463100080	0	0	0	0	6	750	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	25	1521	0	0	7	42	2	54	8	461
900080	0	0	0	0	2	119	1	7	4	375
9800000002	4	85	0	0	86	246	0	0	9	1077
9900000002	50	6	0	0	8	1	0	0	0	0
Month Tot	105	3761	0	0	236	6230	52	590	133	3695
Y-T-D Tot	298	11749	0	0	869	24851	187	971	716	20246
NC YTD Tot	26	2872	0	0	23	689	2	20	46	1001
C&F Month	108	4109	378	1606	383	9535	224	3261	1959	5536
C&F Y-T-D	324	12689	1218	7058	1632	35591	965	11569	17933	45059
C&F NC YTD	28	2982	2	464	47	3299	45	5028	102	7161

Other Manufacturing Technology

1000000000	0	230	0	76	0	2967	0	1160	0	2644
2000000000	0	69	0	0	0	5343	0	2912	0	1490
2710003070	0	0	0	0	0	79	0	0	0	0
8428900010	0	0	0	0	6	78	0	0	0	0
8431390080	0	56	0	23	0	1013	0	101	0	64
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	114	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	6	492
106010	0	0	0	0	6	255	6	1017	3	197
106050	0	0	0	0	46	5498	0	0	6	3396
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	17	506	0	0	1	93
300000	0	0	0	0	6	281	1	692	0	0
400000	0	0	0	0	0	0	0	0	7	112
510010	0	0	0	0	9	922	0	0	5	123
510090	0	0	0	0	2	322	0	0	0	0
590000	0	0	0	0	8	1262	0	0	3	51
800000	9	77	0	0	36	717	1	201	11	157
8479899040	0	0	0	0	3	70	0	0	1	31
908040	0	3	0	0	0	30	0	32	0	28
8537100030	0	0	0	0	0	0	0	0	32	32
9024100000	0	4	0	0	0	194	0	3	0	83
9031100000	0	0	0	0	0	0	0	0	0	7
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	3	17	0	0	0	0
810060	0	0	0	0	0	0	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	724	0	0	0	0	0	0	0	0
8462100030	4	284	0	0	0	0	0	0	0	0
100050	13	692	0	0	0	0	0	0	0	0
210080	44	1880	0	0	0	0	0	0	0	0
290030	1	9	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	10	875	0	0	0	0	1	3	8	226
310080	2	219	0	0	0	0	0	0	0	0
390050	9	517	0	0	0	0	0	0	1	61
410080	11	1136	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	27	248	0	0
910060	1	616	0	0	0	0	0	0	0	0
910090	6	159	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	9	504	0	0	0	0	1	3	5	96
8463100080	2	25	0	0	0	0	0	0	0	0
200080	1	32	0	0	0	0	2	106	0	0
300080	38	1658	0	0	0	0	0	0	3	12
900080	22	1974	0	0	0	0	1	389	2	148
9800000002	4	84	0	0	0	0	0	0	2	43
9900000002	219	43	4	4	0	0	36	31	1	2
Month Tot	398	11430	4	4	0	0	68	781	22	589
Y-T-D Tot	1842	70796	11	124	7	53	235	2290	382	3577
NC YTD Tot	244	18442	0	0	0	0	0	0	3	439
C&F Month	5519	67454	1476	1828	122	1974	288	2833	274	1364
C&F Y-T-D	28002	428669	2641	8751	504	9801	1267	12485	1453	8347
C&F NC YTD	3121	331858	69	4850	99	5127	76	1412	9	1884

Other Manufacturing Technology

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	11475	0	106	0	607	0	191	0	1234
2000000000	0	3610	0	9	0	67	0	98	0	103
2710003070	0	11	0	0	0	0	0	0	0	0
8428900010	63	1094	0	0	0	0	0	0	11	843
8431390080	0	322	0	8	0	0	0	29	0	108
8456101010	16	2577	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	1	3	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	25	4070	0	0	0	0	0	0	0	0
106050	74	5631	3	97	7	116	0	0	0	0
200010	9	517	0	0	0	0	0	0	0	0
200050	18	718	0	0	0	0	0	0	0	0
300000	7	1061	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	15	2073	0	0	0	0	0	0	0	0
510090	0	0	1	60	0	0	0	0	0	0
590000	11	1738	0	0	0	0	0	0	0	0
800000	67	3386	500	60	0	0	0	0	3	33
8479899040	593	4697	2	49	0	0	1	42	8	390
908040	0	924	0	0	0	0	0	0	0	89
8537100030	939	6868	0	0	0	0	0	0	0	0
9024100000	0	727	0	0	0	0	0	0	0	69
9031100000	0	1929	0	7	0	0	0	10	0	2
300000	0	163	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	0	0	2500	8	0	0	0	0	986	140

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

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U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	2	12	2	29	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	2	2	8	4	374	3	10	8	207
210080	4	116	0	0	0	0	14	938	4	251
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	4	38	0	0	0	0	1	13
290050	0	0	2	12	3	72	24	463	14	95
310080	1	185	0	0	0	0	0	0	1	2
390050	0	0	2	10	24	126	0	0	5	55
410080	1	354	0	0	0	0	17	726	1	214
490050	6	309	1	5	12	240	1	53	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	267	39	0	0	1	2	8	25
990030	0	0	0	0	0	0	0	0	0	0
990035	1	100	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	5	14	1	24	8	76
8463100080	0	0	0	0	0	0	1	42	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	3	0	0	2	498	4	288	0	0
900080	1	18	0	0	0	0	4	619	4	62
9800000002	108	42	0	0	87	208	5	356	2	13
9900000002	44	12	526	236	5	11	75	12	344	135
Month Tot	168	1142	804	349	144	1554	152	3561	400	1147
Y-T-D Tot	469	10822	3345	4576	483	5888	1028	24432	1759	6600
NC YTD Tot	16	2125	5	807	5	142	123	8904	27	2711
C&F Month	326	8466	58658	12792	596	10080	1022	22022	14328	6982
C&F Y-T-D	1289	42413	274789	60000	3049	50045	9251	124741	52418	35487
C&F NC YTD	198	13379	469	14520	347	28564	466	55566	231	11521
Other Manufacturing Technology										
1000000000	0	2484	0	1282	0	3433	0	11578	0	3600
2000000000	0	407	0	549	0	661	0	8503	0	1491
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	2	75	0	0	4	16	1	115	17	1222
8431390080	0	668	0	153	0	1039	0	984	0	909
8456101010	1	45	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	365	4	256	1	135
105000	1	303	0	0	1	779	1	2	3	10
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	12	12	0	0
106010	0	0	6	222	0	0	1	97	8	549
106050	5	476	10	373	5	266	20	1179	11	558
200010	0	0	4	68	0	0	9	54	0	0
200050	0	0	12	350	14	304	41	2238	8	445
300000	0	0	0	0	0	0	8	382	0	0
400000	0	0	0	0	0	0	3	32	0	0
510010	0	0	0	0	6	80	0	0	0	0
510090	0	0	0	0	8	602	3	188	4	169
590000	142	35	2	67	2	131	24	326	25	166
800000	10	880	11	146	10	292	106	1893	6	42
8479899040	1	30	0	0	7	325	9	572	13	1487
908040	0	78	0	91	0	241	0	906	0	69
8537100030	0	0	0	0	5	35	1	10	47	6
9024100000	0	36	0	0	0	68	0	533	0	65
9031100000	0	0	0	0	0	12	0	78	0	198
300000	0	19	0	0	0	125	0	68	0	26
9032810020	497	29	0	0	1500	8	2	6	7589	137
810060	0	0	8612	66	781	39	16	12	357	69

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	363	1197	6	150	369	1347
Bulgaria	0	0	0	0	0	0
Czechoslovakia	8	107	0	0	8	107
Denmark	53	149	5	72	58	222
East Germany	62	224	0	0	62	224
Finland	4	105	5	245	9	350
Hungary	0	0	0	0	0	0
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	124	155	12	293	136	448
Norway	0	0	1	45	1	45
Poland	45	497	0	0	45	497
Portugal	14	72	9	113	23	185
Romania	1	19	0	0	1	19
USSR	0	0	0	0	0	0
Yugoslavia	74	821	0	0	74	821
Oth Europe	3	33	1	2	4	35
TOTAL	4704	45378	883	16594	5587	61972
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	4	21	69	125	73	145
Oth N & C Am.	0	0	0	0	0	0
TOTAL	151	3325	305	6355	456	9680
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	378	1606	0	0	378	1606
OCEANIA						
Australia	4	711	2	18	6	729
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	4	711	2	18	6	729

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	13144	1447	283	20	13427	1468
Hong Kong	1	3	3	13	4	15
India	24	274	0	0	24	274
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	0	0	4	52	4	52
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	77738	73989	1496	11868	79234	85857
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

A7020-3

REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 115-90 August 29, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – JUNE 1990

(Values in Millions of U.S. Dollars)

	June 1990	May 1990	Average Mar.-May	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 44.0	$ 46.5	$ 50.1	$307.3	$220.0	39.7%
Imports	$137.8	$125.0	$136.6	$843.5	$921.6	(8.5%)
Balance	($ 93.8)	($ 78.5)	($ 86.5)	($536.2)	($701.6)	(23.6%)
METAL FORMING MACHINE TOOLS						
Exports	$ 42.7	$ 38.9	$ 40.3	$239.7	$246.4	(2.7%)
Imports	$ 45.0	$ 34.8	$ 37.6	$232.0	$288.4	(19.6%)
Balance	($ 2.3)	$ 4.1	$ 2.7	$ 7.7	($ 42.0)	N.M.
MACHINE TOOL TOTAL						
Exports	$ 86.7	$ 85.4	$ 90.4	$547.0	$ 466.4	17.3%
Imports	$182.8	$159.8	$174.2	$1,075.5	$1,210.0	(11.1%)
Balance	($ 96.1)	($ 74.4)	($ 83.8)	($528.5)	($ 743.6)	(28.9%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 22.6	$ 24.0	$ 29.2	$175.3	$112.5	55.8%
Imports	$ 83.5	$ 79.9	$ 94.8	$571.1	$633.6	(9.9%)
Balance	($ 60.9)	($ 55.9)	($ 65.6)	($395.8)	($521.1)	(24.0%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$155.6	$166.9	$159.0	$920.5	N.A.	N.A.
Imports	$147.4	$152.6	$162.5	$987.3	N.A.	N.A.
Balance	$ 8.2	$ 14.3	($ 3.5)	($ 66.8)	N.A.	N.A.

Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; N.M. = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

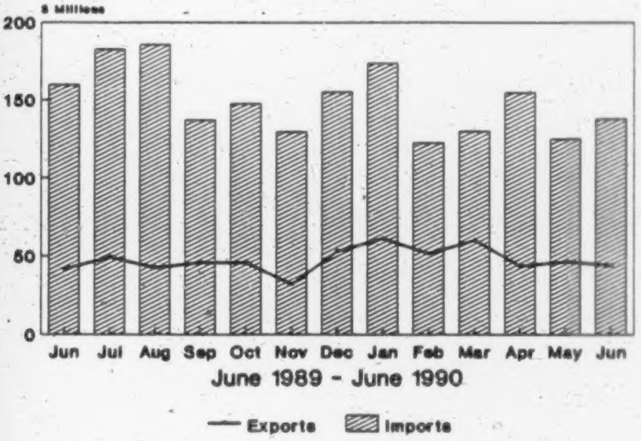
- U.S. machine tool exports for the first half of 1990 were up 17% over the same period in 1989. The export total for the first six months of 1990 ($547.0 million) was higher than the exports for the first six months of any year since 1981.

- Machine tool imports in 1990 through June were down 11% compared with last year, even though imports in June ($182.8) were up 14% over May.

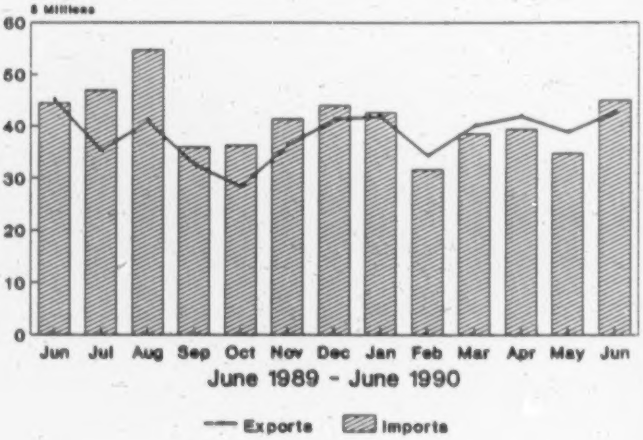
- U.S. exports of numerically controlled machine tools in 1990 through June were up 56% over last year. Imports of NC machines were down 10%.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

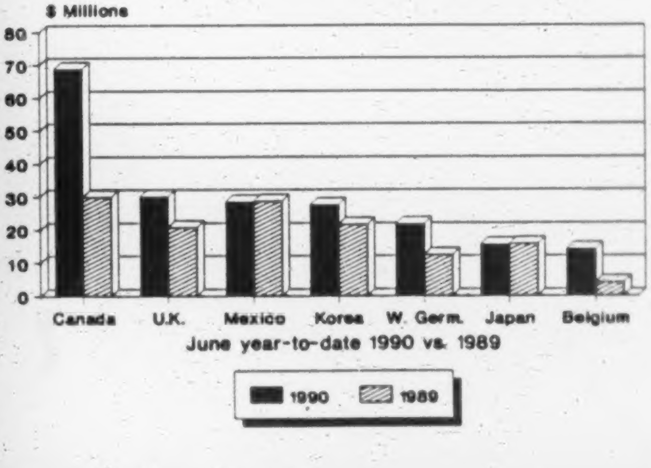
Exports

- Metal cutting exports in June fell 5% from May to $44.0 million. Exports of gear cutting machines in June ($7.7 million) were the highest since December 1989. Exports of boring and boring-milling machines ($0.7 million) were the lowest since October 1989.

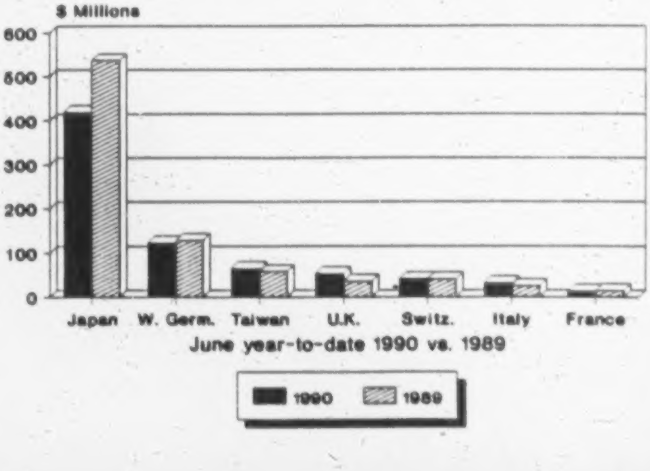
- U.S. metal cutting exports in 1990 through June were up 40% over 1989. Top markets: Canada ($68.9 million, up from $29.8 million); the United Kingdom ($30.0 million, up from $20.6 million) and Mexico ($28.4 million, down from $28.7 million).

- The top exports by type of machine: grinding machines ($64.1 million, up from $55.7 million); machining centers ($37.5 million, up from $18.9 million) and NC horizontal lathes ($26.1 million, up from $12.5 million).

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- U.S. metal cutting imports rose 10% in June over May to $137.8 million. The monthly average so far in 1990: $140.6 million.

- Top imports by type of machine so far in 1990: machining centers ($201.7 million, 69% from Japan); NC horizontal lathes ($161.7 million, 85% from Japan); and grinding machines ($130.9 million, 33% from Japan, 27% from West Germany.)

- Year-to-date metal cutting imports from Japan were down 22%; imports from West Germany were down 4%. Imports from Brazil, mainly non-NC lathes, were up 171%.

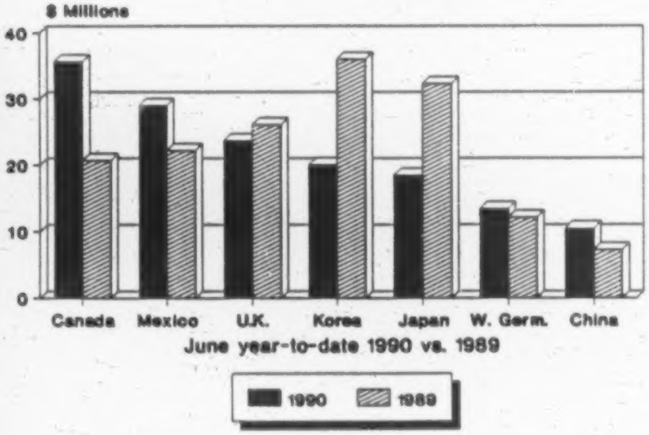
METAL FORMING MACHINE TOOLS

Exports

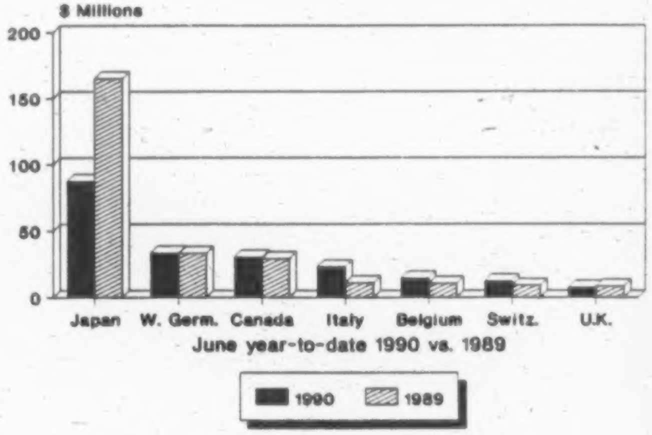
- U.S. exports of metal forming machines rose 10% in June to $42.7 million, paced by presses ($10.4 million) and punching and shearing machines ($7.9 million).

- Year-to-date exports of forming machines were $239.7 million, down 3% from 1989. Big gainer in 1990 year-to-date: presses at $58.7 million, vs. $37.3 million in 1989. Big loser: "metal forming machine tools not elsewhere classified", at $31.5 million vs. $60.1 million in 1989.

- Top U.S. export markets for metal forming machines in 1990 through June: Canada ($35.6 million); Mexico ($29.0 million); the United Kingdom ($23.7 million); South Korea ($20.1 million) and Japan ($18.5 million).



LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES

Imports

- Metal forming imports jumped to $45.0 million in June from $34.8 million in May, including a non-NC mechanical transfer press from Japan valued at $6.8 million.

- Year-to-date imports were down 20% from 1989. Imports of presses were down from $84.6 million in 1989 through June to $43.4 million in 1990; imports of forging machines were down from $49.9 million in 1989 to $30.7 million in 1990.

- The largest sources of metal forming imports in the first six months of 1990: Japan ($87.6 million, down 47% from 1989); West Germany ($33.5 million, up 1%); Canada ($30.6 million, up 5%) and Italy ($23.2 million, up 109%).

OTHER MANUFACTURING TECHNOLOGY

Exports

- U.S. exports of machine tool parts and accessories totalled $364.3 million in 1990 through June. The comparable number for 1989: $336.4 million.

- Year-to-date 1990 exports of numerical controls for controlling machine tools were $16.3 million, down from $21.0 million in 1989.

- U.S. exports of industrial robots (not including parts) were $33.7 million in 1990 through June, compared with $25.1 million in 1989 at the same time. The biggest markets in 1990: Canada ($16.9 million) and West Germany ($6.6 million).

Imports

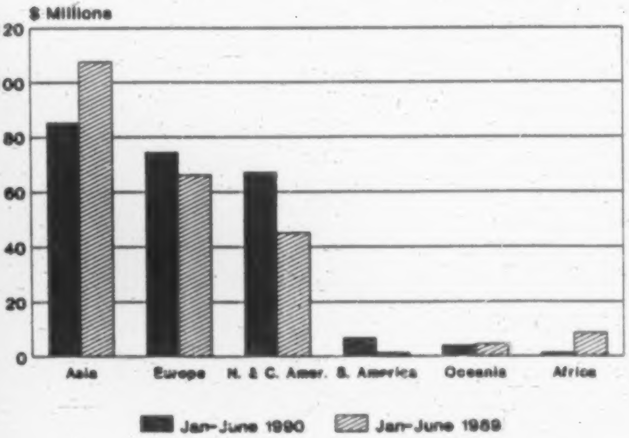
- U.S. imports of injection molding machines for thermoplastics, rubber or other thermosetting materials were $158.0 million in 1990 through June, down from $182.2 million in 1989 through June.

- Year-to-date imports of machine tool parts and accessories were $280.0 million, down from $341.7 million last year at this time. Imports of numerical controls rose from $23.5 million in 1989 to $25.9 million in 1990.

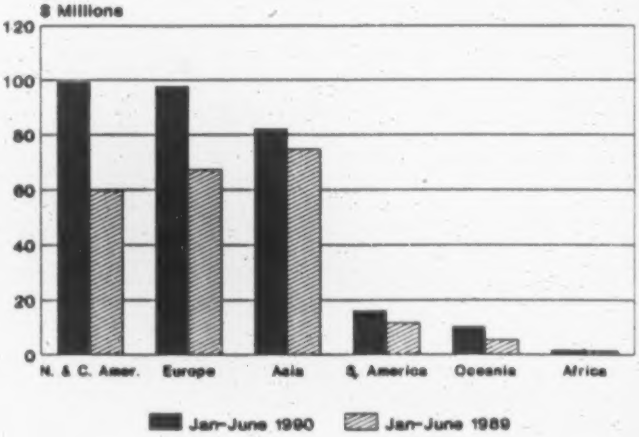
MONTHLY FOCUS

In 1989 through June, Asia was easily the top U.S. export region for metal forming machines, followed by Europe and North & Central America. The order is the same for 1990, but the three regions are much closer together – exports to Asia have fallen, but exports to Europe and North & Central America have risen. Asia was also the top market for metal cutting machines in 1989 through June, only to be supplanted in 1990 by both North & Central America and Europe. For metal cutting and metal forming combined, Europe was the top region in the first half of 1990, with U.S. exports of $172.4 million, followed by Asia ($167.6 million) and North & Central America ($166.6 million).

U.S. Metal Forming Machine Tool Exports



U.S. Metal Cutting Machine Tool Exports



1990 EXPORTS

METAL CUTTING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Canada	$ 8,211,929	$ 6,693,716	22.68%	$ 68,903,254	$29,817,997	131.08%
U.K.	3,138,964	4,900,020	-35.94	30,003,577	20,628,070	45.45
Mexico	4,588,718	4,429,836	3.59	28,439,391	28,692,423	-0.88
Korea	5,810,559	4,533,605	28.17	27,535,520	21,533,991	27.87
West Germany	2,650,471	5,195,633	-48.99	21,686,944	12,310,872	76.16
Japan	2,916,763	2,613,638	11.60	15,549,896	15,668,594	-0.76
Belgium	3,144,388	1,417,268	121.86	14,170,829	4,055,810	249.40
China	1,715,133	1,595,456	7.50	11,913,898	13,635,279	-12.62
India	1,159,705	624,527	85.69	10,124,429	4,158,289	143.48
Australia	300,188	1,962,761	-84.71	10,007,021	5,040,802	98.52
Brazil	1,257,004	861,918	45.84	8,699,159	4,054,359	114.56
Italy	1,572,870	746,666	110.65	8,129,329	7,645,583	6.33
France	202,196	668,436	-69.75	4,876,754	8,468,630	-42.41
Singapore	1,223,822	1,246,622	-1.83	4,403,797	4,955,914	-11.14
Venezuela	444,916	897,071	-50.40	3,658,542	4,532,128	-19.28
Taiwan	146,816	284,581	-48.41	3,399,239	4,544,203	-25.20
USSR	0	33,812	-100.00	3,241,319	729,360	344.41
Switzerland	654,355	317,301	106.23	3,028,906	2,466,512	22.80
Spain	514,182	575,869	-10.71	2,675,878	1,450,908	84.43
Netherlands	249,726	994,204	-74.88	2,526,922	3,202,271	-21.09
Thailand	92,736	19,287	380.82	1,145,658	1,118,357	2.44
Malaysia	180,053	26,061	590.89	642,908	427,251	50.48
Austria	8,850	56,165	-84.24	190,049	470,759	-59.63
Indonesia	15,206	0	NA	130,842	2,988,710	-95.62

METAL FORMING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Canada	$ 6,207,367	$ 4,543,183	36.63%	$ 35,638,256	$20,692,394	72.23%
Mexico	4,649,387	6,198,769	-24.99	28,992,751	22,181,932	30.70
U.K.	7,343,964	6,078,649	20.82	23,727,260	26,112,269	-9.13
Korea	3,181,811	1,971,841	61.36	20,053,838	36,024,695	-44.33
Japan	1,305,146	3,470,971	-62.40	18,460,279	32,297,929	-42.84
West Germany	2,004,273	2,658,596	-24.61	13,436,352	12,117,367	10.89
China	2,283,502	1,290,309	76.97	10,466,929	7,239,274	44.59
France	1,000,289	2,639,124	-62.10	9,742,923	4,660,454	109.06
Taiwan	1,286,302	228,704	462.43	8,987,397	5,804,763	54.83
Italy	428,157	1,838,777	-76.72	5,659,721	5,163,043	9.62
India	203,752	145,740	39.81	5,302,748	5,497,668	-3.55
Netherlands	723,419	497,594	45.38	3,990,488	1,435,139	178.06
Spain	1,680,213	351,890	377.48	3,321,914	2,767,528	20.03
Australia	459,225	183,371	150.43	3,293,028	4,484,763	-26.57
Singapore	484,998	549,143	-11.68	3,272,097	6,248,882	-47.64
Malaysia	1,418,351	102,871	1,278.77	3,128,863	735,806	325.23
Brazil	452,704	635,010	-28.71	2,746,149	2,919,299	-5.93
Thailand	1,681,444	270,383	521.87	2,428,334	1,689,113	43.76
Belgium	420,495	217,234	93.57	2,093,990	1,673,217	25.15
Austria	29,463	823,996	-96.42	1,632,485	616,150	164.95
Switzerland	370,469	37,346	891.99	1,380,508	944,057	46.23
Venezuela	337,214	197,932	70.37	863,100	5,751,808	-84.99
USSR	83,204	611,615	-86.40	694,819	107,711	545.08
Indonesia	19,930	0	NA	51,094	109,115	-53.17

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Canada	$14,419,296	$11,236,899	28.32%	$104,541,510	$50,510,391	106.97%
Mexico	9,238,105	10,628,605	-13.08	57,432,142	50,874,355	12.89
U.K.	10,482,928	10,978,669	-4.52	53,730,837	46,740,339	14.96
Korea	8,992,370	6,505,446	38.23	47,589,358	57,558,686	-17.32
West Germany	4,654,744	7,854,229	-40.74	35,123,296	24,428,239	43.78
Japan	4,221,909	6,084,609	-30.61	34,010,175	47,966,523	-29.10
China	3,998,635	2,885,765	38.56	22,380,827	20,874,553	7.22
Belgium	3,564,883	1,634,502	118.10	16,264,819	5,729,027	183.90
India	1,363,457	770,267	77.01	15,427,177	9,655,957	59.77
France	1,202,485	3,307,560	-63.64	14,619,677	13,129,084	11.35
Italy	2,001,027	2,585,443	-22.60	13,789,050	12,808,626	7.65
Australia	759,413	2,146,132	-64.61	13,300,049	9,525,565	39.62
Taiwan	1,433,118	513,285	179.21	12,386,636	10,348,966	19.69
Brazil	1,709,708	1,496,928	14.21	11,445,308	6,973,658	64.12
Singapore	1,708,820	1,795,765	-4.84	7,675,894	11,204,796	-31.49
Netherlands	973,145	1,491,798	-34.77	6,517,410	4,637,410	40.54
Spain	2,194,395	927,759	136.53	5,997,792	4,218,436	42.18
Venezuela	782,130	1,095,003	-28.57	4,521,642	10,283,936	-56.03
Switzerland	1,024,824	354,647	188.97	4,409,414	3,410,569	29.29
USSR	83,204	645,427	-87.11	3,936,138	837,071	370.23
Malaysia	1,598,404	128,932	1,139.73	3,771,771	1,163,057	224.30
Thailand	1,774,180	289,670	512.48	3,573,992	2,807,470	27.30
Austria	38,313	880,161	-95.65	1,822,534	1,086,909	67.68
Indonesia	35,136	0	NA	181,936	3,097,825	-94.13

1990 IMPORTS

METAL CUTTING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Japan	$61,866,240	$56,023,510	10.43%	$419,739,263	$536,786,644	-21.81%
West Germany	22,447,701	18,460,983	21.60	122,755,724	128,083,882	-4.16
Taiwan	10,017,567	12,443,652	-19.50	65,441,728	57,525,702	13.76
U.K.	9,276,274	8,525,986	8.80	53,433,104	36,204,058	47.59
Switzerland	10,115,054	7,324,423	38.10	41,705,349	41,186,418	1.26
Italy	6,879,295	1,841,480	273.57	31,692,294	24,501,007	29.35
France	2,118,338	2,670,995	-20.69	12,717,075	14,925,881	-14.80
Canada	1,345,208	3,304,632	-59.29	12,085,803	9,131,228	32.36
Spain	1,404,000	2,052,479	-31.59	11,598,733	10,142,048	14.36
Singapore	1,036,513	1,974,123	-47.50	10,783,961	7,043,666	53.10
Korea	1,933,092	1,824,164	5.97	10,560,566	12,955,461	-18.49
Brazil	1,596,332	1,606,499	-0.63	8,654,424	3,194,983	170.88
Sweden	1,953,507	774,729	152.15	6,723,003	5,368,675	25.23
Belgium	75,000	347,990	-78.45	1,015,740	4,078,293	-75.09

METAL FORMING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Japan	$16,849,910	$11,430,487	47.41%	$ 87,646,001	$165,115,575	-46.92%
West Germany	9,090,733	3,561,247	155.27	33,523,223	33,226,107	0.89
Canada	5,790,298	6,229,935	-7.06	30,640,856	29,234,386	4.81
Italy	2,947,774	3,694,664	-20.22	23,194,021	11,116,403	108.65
Belgium	2,959,103	3,761,307	-21.33	14,707,832	10,746,896	36.86
Switzerland	1,446,139	1,141,761	26.66	12,268,375	9,041,843	35.68
U.K.	1,451,611	1,554,462	-6.62	7,340,037	8,370,231	-12.31
Taiwan	1,128,375	348,831	223.47	5,704,133	4,914,410	16.07
Sweden	726,707	589,067	23.37	4,303,795	4,357,552	-1.23
Spain	210,141	780,852	-73.09	2,500,381	1,292,182	93.50
France	1,172,596	590,314	98.64	2,143,284	921,542	132.58
Korea	0	4,164	-100.00	123,692	174,508	-29.12
Singapore	3,954	0	NA	57,059	602,839	-90.53
Brazil	0	0	NA	0	143,425	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JUNE	MAY	%CHANGE	JUN YTD'90	JUN YTD'89	%CHANGE
Japan	$78,716,150	$67,453,997	16.70%	$507,385,264	$701,902,219	-27.71%
West Germany	31,538,434	22,022,230	43.21	156,278,947	161,309,989	-3.12
Taiwan	11,145,942	12,792,483	-12.87	71,145,861	62,440,112	13.94
U.K.	10,727,885	10,080,448	6.42	60,773,141	44,574,289	36.34
Italy	9,827,069	5,536,144	77.51	54,886,315	35,617,410	54.10
Switzerland	11,561,193	8,466,184	36.56	53,973,724	50,228,261	7.46
Canada	7,135,506	9,534,567	-25.16	42,726,659	38,365,614	11.37
Belgium	3,034,103	4,109,297	-26.16	15,723,572	14,825,189	6.06
France	3,290,934	3,261,309	0.91	14,860,359	15,847,423	-6.23
Spain	1,614,141	2,833,331	-43.03	14,099,114	11,434,230	23.31
Sweden	2,680,214	1,363,796	96.53	11,026,798	9,726,227	13.37
Singapore	1,040,467	1,974,123	-47.29	10,841,020	7,646,505	41.78
Korea	1,933,092	1,828,328	5.73	10,684,258	13,129,969	-18.63
Brazil	1,596,332	1,606,499	-0.63	8,654,424	3,338,408	159.24

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

PRODUCT TYPES	MAY 1990		JUNE 1990		JUN 90' Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	30,162	81,314,028
Boring Machines	23	2,694,052	28	725,470	93	9,258,371
Drilling Machines	141	1,391,074	120	1,137,000	580	9,269,045
Gear Cutting Machines	16	3,920,375	23	7,676,020	120	24,702,476
Grinding Machines	234	9,407,118	266	5,746,890	1,764	64,114,799
Horizontal Lathes NC	43	4,213,770	45	4,033,357	240	26,059,215
Vertical Lathes NC	4	245,844	1	63,000	31	2,686,358
Lathes Non-NC	60	1,105,382	85	1,435,017	392	9,346,234
Milling Machines	38	1,738,745	13	603,525	235	17,458,885
Machining Centers	23	4,666,577	39	6,176,997	237	37,452,946
Station Type Machines	2	2,487,300	0	0	50	20,821,899
Other Metal Cutting	484	5,316,601	378	6,376,676	2,121	41,824,124
Punching & Shearing Machines	162	6,578,641	178	7,923,077	834	38,061,653
Bending & Forming Machines	142	4,048,283	125	4,440,766	834	29,629,910
Presses	287	8,435,990	154	10,425,441	1,294	58,746,680
Forging Machines	67	6,501,594	40	3,738,610	206	24,110,286
Other Metal Forming	324	9,293,053	340	8,244,762	1,708	52,151,624
TOTAL	7,564	85,368,156	8,391	86,669,510	40,901	547,008,533

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JUNE 1989		JUN 89' Y-T-D TOTALS	
	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	3,556	17,348,522	27,579	75,426,298
Boring Machines	29	1,671,316	174	10,838,898
Drilling Machines	33	1,653,649	149	8,356,436
Gear Cutting Machines	22	4,722,265	111	16,845,768
Grinding Machines	321	12,488,637	1,893	55,675,906
Horizontal Lathes NC	26	3,018,171	126	12,454,230
Vertical Lathes NC	5	738,521	10	1,297,260
Lathes Non-NC	41	776,438	252	6,996,980
Milling Machines	37	1,408,096	303	15,786,558
Machining Centers	14	1,650,056	127	18,934,047
Station Type Machines	0	0	30	9,246,286
Other Metal Cutting	226	8,360,124	1,286	28,412,887
Punching & Shearing Machines	120	4,665,277	599	30,038,856
Bending & Forming Machines	72	4,269,185	552	27,048,541
Presses	143	8,063,327	798	37,289,369
Forging Machines	74	4,247,697	368	20,574,236
Other Metal Forming	293	11,931,694	2,443	91,172,382
TOTAL	5,012	87,012,975	36,800	466,394,938

PRODUCT TYPES	% CHANGE MAY 90' - JUN 90'		% CHANGE JUN 89' - JUN 90'		% CHANGE YTD 89' - YTD 90'	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	18.90	34.52	84.36	3.31	9.37	7.81
Boring Machines	21.74	-73.07	-3.45	-56.59	-46.55	-14.58
Drilling Machines	-14.89	-18.26	263.64	-31.24	289.26	10.92
Gear Cutting Machines	43.75	95.80	4.55	62.55	8.11	46.64
Grinding Machines	13.68	-38.91	-17.13	-53.98	-6.81	15.16
Horizontal Lathes NC	4.65	-4.28	73.08	33.64	90.48	109.24
Vertical Lathes NC	-75.00	-74.37	-80.00	-91.47	210.00	107.08
Lathes Non-NC	41.67	29.82	107.32	84.82	55.56	33.58
Milling Machines	-65.79	-65.29	-64.86	-57.14	-22.44	10.59
Machining Centers	69.57	32.37	178.57	274.35	86.61	97.81
Station Type Machines	-100.00	-100.00	0.00	0.00	66.67	125.19
Other Metal Cutting	-21.90	19.94	67.26	-23.73	64.93	47.20
Punching & Shearing Machines	9.88	20.44	48.33	69.83	39.23	26.71
Bending & Forming Machines	-11.97	9.70	73.61	4.02	51.09	9.54
Presses	-46.34	23.58	7.69	29.29	62.16	57.54
Forging Machines	-40.30	-42.50	-45.95	-11.99	-44.02	17.19
Other Metal Forming	4.94	-11.28	16.04	-30.90	-30.09	-42.80
TOTAL	10.93	1.52	67.42	-0.39	11.14	17.28

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JUN 90' Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	461,545	75,296,705
Boring Machines	63	2,378,706	33	4,123,015	281	15,640,666
Drilling Machines	105	1,412,575	110	2,955,449	712	20,039,737
Gear Cutting Machines	60	1,682,253	14	2,742,090	258	21,155,208
Grinding Machines	761	22,855,644	751	21,054,909	4,325	130,945,818
Horizontal Lathes NC	246	26,717,053	257	26,221,605	1,691	161,715,294
Vertical Lathes NC	12	2,697,583	10	1,453,386	70	12,025,727
Lathes Non-NC	684	8,838,746	758	16,925,801	4,313	63,722,900
Milling Machines	498	6,400,652	481	7,074,128	2,886	40,425,343
Machining Centers	212	21,375,164	269	26,963,021	1,725	201,686,176
Station Type Machines	9	5,207,130	4	4,151,942	94	28,078,217
Other Metal Cutting	477	14,389,120	302	13,417,230	2,518	85,699,720
Punching & Shearing Machines	168	5,567,876	165	6,624,692	914	35,745,109
Bending & Forming Machines	245	7,810,331	181	8,443,572	1,188	42,309,221
Presses	410	4,231,697	74	14,834,727	1,429	43,432,455
Forging Machines	46	3,389,713	85	3,437,927	507	30,654,277
Other Metal Forming	198	11,187,287	186	10,134,241	1,333	66,961,454
TOTAL	85,661	159,844,485	89,054	182,828,669	485,789	1,075,534,027

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JUNE 1989		JUN 89' Y-T-D TOTALS	
	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	69,060	13,921,578	298,201	76,869,292
Boring Machines	72	2,527,722	442	30,547,185
Drilling Machines	152	4,725,223	966	46,010,435
Gear Cutting Machines	145	5,584,652	397	20,659,473
Grinding Machines	774	23,858,043	3,981	136,689,036
Horizontal Lathes NC	359	31,870,568	2,076	193,054,924
Vertical Lathes NC	13	2,027,113	81	10,390,667
Lathes Non-NC	444	11,364,045	2,645	45,967,905
Milling Machines	534	5,485,628	2,832	57,028,146
Machining Centers	326	40,246,641	1,720	190,543,864
Station Type Machines	19	4,361,363	102	27,098,956
Other Metal Cutting	423	15,836,967	2,531	98,166,598
Punching & Shearing Machines	226	8,847,890	884	37,604,868
Bending & Forming Machines	200	9,413,493	1,492	50,183,617
Presses	156	8,735,506	1,010	84,587,413
Forging Machines	105	5,532,553	855	49,897,517
Other Metal Forming	188	9,705,046	3,361	54,676,312
TOTAL	73,196	204,044,031	323,576	1,209,976,208

PRODUCT TYPES	% CHANGE MAY 90' - JUN 90'		% CHANGE JUN 89'- JUN 90'		% CHANGE YTD 89' - YTD 90'	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	4.80	-10.45	23.62	-11.86	54.78	-2.05
Boring Machines	-47.62	73.33	-54.17	63.11	-36.43	-48.80
Drilling Machines	4.76	109.22	-27.63	-37.45	-26.29	-56.45
Gear Cutting Machines	-76.67	63.00	-90.34	-50.90	-35.01	2.40
Grinding Machines	-1.31	-7.88	-2.97	-11.75	8.64	-4.20
Horizontal Lathes NC	4.47	-1.85	-28.41	-17.72	-18.55	-16.23
Vertical Lathes NC	-16.67	-46.12	-23.08	-28.30	-13.58	15.74
Lathes Non-NC	10.82	91.50	70.72	48.94	63.06	38.62
Milling Machines	-3.41	10.52	-9.93	28.96	1.91	-29.11
Machining Centers	26.89	26.14	-17.48	-33.01	0.29	5.85
Station Type Machines	-55.56	-20.26	-78.95	-4.80	-7.84	3.61
Other Metal Cutting	-36.69	-6.75	-28.61	-15.28	-0.51	-12.70
Punching & Shearing Machines	-1.79	18.98	-26.99	-25.13	3.39	-4.95
Bending & Forming Machines	-26.12	8.11	-9.50	-10.30	-20.38	-15.69
Presses	-81.95	250.56	-52.56	69.82	41.49	-48.65
Forging Machines	84.78	1.42	-19.05	-37.86	-40.70	-38.57
Other Metal Forming	-6.06	-9.41	-1.06	4.42	-60.34	22.47
TOTAL	3.96	14.38	21.67	-10.40	50.13	-11.11

U.S. EXPORTS
Metal Cutting Machine Tools - June 90

RELEASED: August 29, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	40	2893	5	397
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	50	8768	12	1821
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	10	2043	0	0
100035	Horiz. mach. ctrs., ATC	35	9690	9	2054
100045	Mach. ctrs., n.e.c.	142	16952	18	2302
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	7	11259	0	0
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	15	3582	1	134
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	181	13796	33	2508
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	30	4048	10	1046
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	14	4634	1	345
190030	Horiz. engine or toolroom lathes, non-NC	74	1460	14	311
190050	Automatic bar and/or chucking mach., single spindle, non-NC	6	239	3	108
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	27	1233	0	0
190090	Horiz. lathes, n.e.c., non-NC	213	2670	58	651
911060	Vertical turret lathes, multiple spindle, NC	1	63	1	63
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	14	657	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	14	1650	0	0
991050	Vertical turret lathes, non-NC	23	572	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	49	3173	10	365
8459100000	Way-type unit head machines	14	1957	0	0
210080	Other drilling machines, NC	54	4675	5	303
290040	Drilling machines, multiple spindle, non-NC	14	715	2	188
290050	Drilling machines, radial, non-NC	17	145	1	5
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	52	1002	3	23
290090	Drilling machines, n.e.c., non-NC	443	2733	109	618
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	1481	0	0
310070	Boring-milling mach., n.e.c., NC	8	385	3	172
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	21	799	12	171
400040	Boring machines, vertical, NC	2	899	0	0
400050	Boring machines, vertical, non-NC	29	491	4	76
400070	Boring machines, n.e.c., NC	7	2536	0	0
400080	Boring machines, n.e.c., non-NC	18	849	9	307
510080	Milling machines, knee type, NC	11	713	2	91
590030	Milling machines, knee type, non-NC	49	1549	3	99
610080	Milling machines, excl. knee type, n.e.c., NC	33	9853	1	290
690050	Milling machines, profile, dup., or die sinking, non-NC	22	511	1	16
690070	Milling machines, bed type, non-NC	1	50	0	0
690090	Milling machines, n.e.c., non-NC	119	4782	6	108
700020	Threading or tapping machines, n.e.c., NC	16	749	4	100
700080	Threading or tapping machines, n.e.c., non-NC	235	2484	44	484
8460110080	Flat surface grinding mach., NC	35	3284	6	941
190010	Flat surface grinding mach., recip.-table type, non-NC	29	565	1	12
190050	Flat surface grinding mach., n.e.c., non-NC	22	3635	2	317
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	49	15041	4	1035
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	16	2206	1	52
290030	Grinding mach., internal cylindrical, non-NC	24	2455	4	143
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	182	7517	13	382
310080	Sharpening machines (tool & cutter grinding), NC	26	1646	15	478
390050	Sharpening machines (tool & cutter grinding), non-NC	461	9421	77	610
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	351	8240	49	670
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	6	765	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	563	9342	94	1107
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	177	5304	26	322
200010	Shaping or slotting machines, NC	3	87	0	0
200090	Shaping or slotting machines, non-NC	23	581	3	44
300060	Broaching machines, NC	10	1139	0	0
300080	Broaching machines, non-NC	18	1245	4	87
401050	Gear hobbers	12	2040	3	901
401070	Gear shapers	18	3684	2	739
401090	Gear cutting machines, n.e.c.	48	15581	14	5164
405060	Gear grinding or finishing machines	42	3397	4	872
500050	Sawing or cutting-off machines, NC	83	2576	11	619
500090	Sawing or cutting-off machines, non-NC	758	9810	122	1366
9000000001	Metal cutting machine tools, n.e.c.	757	14846	159	2958
9800000001	Used or rebuilt machine tools	2473	33122	431	7564
9900000001	Machine tools valued at less than $2,500	18684	11198	3924	2469
	Cutting Total			5353	44006
	Y-T-D Cutting Total	27020	307315		
	NC Y-T-D Cutting Total*	994	131509		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - June 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	5	397
8457100015	0	0	0	0	5	603	0	0	4	618
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	4	758	0	0	2	307
100045	0	0	0	0	0	0	0	0	2	202
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	8	649	0	0	1	45
110050	0	0	0	0	7	730	0	0	2	236
110090	0	0	0	0	0	0	1	345	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	2	47
190070	0	0	0	0	0	0	0	0	0	0
190090	30	76	0	0	0	0	0	0	5	128
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	5	137
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	21
290050	0	0	0	0	0	0	0	0	1	5
290070	0	0	0	0	0	0	0	0	3	23
290090	0	0	0	0	0	0	0	0	25	177
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	105
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	3	66
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	19
510080	0	0	0	0	0	0	0	0	2	91
590030	1	35	0	0	0	0	0	0	1	17
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	1	16	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	9
700020	0	0	0	0	3	76	0	0	0	0
700080	2	17	0	0	2	126	0	0	9	120
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	12
190050	0	0	0	0	0	0	1	131	0	0
210080	0	0	0	0	0	0	0	0	2	616
290010	0	0	0	0	0	0	0	0	1	52
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	3	87
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	19	105
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	10	199
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	9	0	0	0	0	21	346
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	6	17	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	32
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	28
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	499
401090	0	0	0	0	0	0	1	385	0	0
405060	0	0	0	0	0	0	0	0	1	757
500050	0	0	0	0	0	0	0	0	11	619
500090	1	15	0	0	9	170	0	0	29	334
9000000001	0	0	0	0	0	0	1	3	16	127
9800000001	3	91	0	0	1	12	10	360	87	1316
9900000001	71	67	0	0	8	19	0	0	299	312
Month Tot	108	300	1	9	47	3144	21	1257	580	8212
Y-T-D Tot	1125	10007	85	190	336	14171	483	8699	3225	68903
NC YTD Tot*	13	4758	1	23	109	12600	11	1965	236	38865

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - June 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	652	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	1	99	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	109
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	1	5	1	126
8460110080	1	787	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	1	186	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	1	27
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	49	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	7	38	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	4	23	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	46	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	2	840	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	30	1099
9800000001	5	44	2	8	12	241	0	0	22	190
9900000001	0	0	52	34	266	31	11	10	33	22
Month Tot	9	1715	66	202	281	1160	12	15	89	1573
Y-T-D Tot	153	11914	686	4877	494	10124	64	131	919	8129
NC YTD Tot*	25	7583	44	2999	10	3031	0	0	39	1698

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - June 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	3	601	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	496	0	0	7	516	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	1	134	0	0
110030	0	0	1	76	0	0	1	43	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	1	3	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	14	213	0	0
911060	0	0	0	0	0	0	1	63	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	14	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	3	203	0	0
290040	0	0	0	0	0	0	1	167	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	17	142	1	6	0	0	38	167	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	128	0	0	5	160	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	1	290	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	4	94	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	3	19	0	0
8460110080	0	0	0	0	0	0	1	28	2	64
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	2	419	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	3	29	0	0
310080	0	0	0	0	0	0	14	459	0	0
390050	40	260	4	27	4	28	5	112	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	9	0	0	3	45	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	18	181	32	350	0	0	4	21	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	13	145	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	2	59	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	1	240	0	0
401090	5	373	6	3734	0	0	1	47	0	0
405060	0	0	1	58	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	1	9	1	19	0	0	9	99	34	133
9000000001	6	408	0	0	0	0	8	69	3	31
9800000001	35	1341	6	166	0	0	80	550	0	0
9900000001	439	203	37	33	102	152	874	289	25	22
Month Tot	561	2917	97	5811	106	180	1101	4589	64	250
Y-T-D Tot	2059	15550	892	27536	184	643	5189	28439	299	2527
NC YTD Tot*	45	5033	51	9030	0	0	119	7388	9	860

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - June 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	1	170	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	11	66	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	47	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	2	8	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	4	155	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	3	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	7	80	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	3	36	3	79	0	0	1	5	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	10	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	5	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	1	10	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	2	32	0	0
9000000001	90	1130	0	0	3	30	0	0	0	0
9800000001	0	0	40	351	2	19	5	13	8	19
9900000001	91	46	14	5	319	195	39	46	52	73
Month Tot	187	1224	64	514	342	654	49	147	60	93
Y-T-D Tot	881	4404	204	2676	636	3029	440	3399	122	1146
NC YTD Tot*	10	520	24	998	2	419	14	944	2	122

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - June 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	2	687	1	302
100045	4	267	0	0	2	107	1	61	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	21	1596	0	0	0	0	0	0	0	0
110050	1	80	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	12	293	0	0	0	0	1	15	0	0
190050	1	61	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	3	30	0	0	0	0	2	9	3	25
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	2	105	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	2	100	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	3	0	0	13	58	0	0	14	66
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	3	172
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	10
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	5	0	0
700020	0	0	0	0	0	0	0	0	1	24
700080	0	0	0	0	23	59	0	0	1	3
8460110080	0	0	0	0	0	0	0	0	2	62
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	3	116	0	0
290050	0	0	0	0	0	0	3	111	0	0
310080	0	0	0	0	0	0	0	0	1	19
390050	0	0	0	0	0	0	3	26	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	17	255	4	44
900060	0	0	0	0	0	0	0	0	0	0
900080	3	20	0	0	0	0	0	0	4	37
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	5	4	98
200010	0	0	0	0	0	0	0	0	0	0
200090	1	8	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	1	61	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	625	0	0
405060	0	0	0	0	0	0	0	0	1	48
500050	0	0	0	0	0	0	0	0	0	0
500090	17	269	0	0	0	0	9	155	10	132
9000000001	0	0	0	0	0	0	0	0	2	61
9800000001	11	239	0	0	6	190	47	460	49	1954
9900000001	168	69	0	0	43	31	121	59	860	751
Month Tot	247	3139	0	0	87	445	213	2650	961	3807
Y-T-D Tot	2329	30004	15	3241	488	3659	1460	21687	4252	22231
NC YTD Tot*	123	19871	0	0	3	217	29	4778	75	7808

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

RELEASED: August 29, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	203	5593	36	228
8462100030	Headers and upsetters, including cold headers	30	9556	5	1007
100050	Forging or die stamping machines, and hammers, n.e.c.	176	14554	35	2731
210080	Bending, folding, straight. or flat. mach., incl presses, NC	158	12616	38	2433
290030	Press brakes, non-NC	109	2674	12	474
290040	Bending rolls, non-NC	43	920	2	18
290050	Bending, folding, straight., or flat., n.e.c., non-NC	524	13420	73	1516
310080	Shearing machines, NC	44	4545	6	1358
390050	Shearing machines, non-NC	202	4261	42	1021
410080	Punching or notching mach., incl. comb. punch & shear, NC	102	15536	15	1124
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	486	13719	115	4420
910060	Hydraulic presses, NC	38	2637	4	185
910090	Hydraulic presses, non-NC	383	17521	61	2998
990030	Presses, n.e.c., NC	78	8480	10	1646
990040	Presses, mechanical, non-NC	53	6257	10	1763
990060	Presses, n.e.c., non-NC	742	23851	69	3833
8463100080	Draw benches for bars, tubes, profiles, wire or the like	91	2496	15	902
200080	Thread rolling machines	27	1391	1	20
300080	Machines for working wire	351	11171	67	1238
900080	Metal forming machine tools, n.e.c.	1036	31500	221	5857
9800000002	Used or rebuilt machine tools	1848	31671	482	6713
9900000002	Machine tools valued at less than $2,500	7157	5322	1719	1178

Forming Total			3038	42663
Y-T-D Forming Total	13881	239694		
NC Y-T-D Forming Total	420	43814		
Cutting and Forming Totals:				
Monthly Total			8391	86670
Y-T-D Total	40901	547009		
NC Y-T-D Total*	1414	175323		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	364293	0	58229
2000000000	Parts for working rubber or plastics - heading 8477	0	146116	0	23457
2710003070	Quenching or cutting oils	0	15366	0	6914
8428900010	Industrial robots for lifting, handling, loading or unload	208	3597	57	1142
8431390090	Parts industrial robots, handling and loading - heading 8428	0	37082	0	5152
8456100000	Laser, light or photon beam for working any material	406	19700	64	2533
200000	Ultrasonic process for working any material	55	1295	8	155
8477106010	Injection molding mach., for rubber or oth. thermosetting	118	7862	39	1724
106070	Injection molding mach., for thermoplastics	196	24548	47	6357
200010	Extruders for rubber or other thermosetting materials	204	8157	18	770
200050	Extruders for processing thermoplastics	425	19574	61	2927
300000	Blow molding machines	335	25756	124	8932
400000	Vacuum-molding and other thermoforming machines	4185	7199	7	105
510010	Machines for molding or retreading pneumatic tires	466	9498	21	667
510090	Machines for molding or otherwise forming inner tubes	190	23836	17	1042
590000	Machines for molding or otherwise forming n.e.c.	649	12256	47	1659
800000	Machines for working rubber or plastics n.e.c.	2046	53885	372	8938
8479899040	Industrial robots, n.e.c.	3019	30138	435	5503
908040	Industrial robot parts	0	16948	0	2039
8537100030	Numerical controls for controlling machine tools	1125	16331	173	3024
9024100000	Machines and appliances for testing metals	0	36373	0	6985
9031100000	Machines for balancing mechanical parts	0	16472	0	2518
300000	Profile projectors	0	4518	0	1479
9032810040	Industrial process control instr., hydraulic or pneumatic	323463	19764	60892	3426

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	38	0	0	5	524
210080	4	237	0	0	0	0	2	63	3	239
290030	0	0	0	0	0	0	0	0	4	123
290040	0	0	0	0	0	0	0	0	1	9
290050	0	0	0	0	0	0	0	0	19	260
310080	1	81	0	0	0	0	0	0	3	1196
390050	0	0	0	0	0	0	0	0	5	131
410080	0	0	0	0	0	0	0	0	1	26
490050	1	30	0	0	0	0	0	0	16	323
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	2	221
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	1	19
990060	0	0	0	0	0	0	10	273	8	52
8463100080	3	54	0	0	3	36	0	0	2	319
200080	0	0	0	0	0	0	0	0	0	0
300080	1	44	1	29	0	0	3	63	7	214
900080	0	0	0	0	0	0	0	0	13	329
9800000002	0	0	0	0	0	0	1	41	134	2024
9900000002	14	13	0	0	404	346	16	13	210	199
Month Tot	24	459	1	29	408	420	32	453	434	6207
Y-T-D Tot	216	3293	37	1632	514	2094	313	2746	2235	35638
NC YTD Tot	22	1734	0	0	0	0	8	501	83	11068
C&F Month	132	759	2	38	455	3565	53	1710	1014	14419
C&F Y-T-D	1341	13300	122	1823	850	16265	796	11445	5460	104542
C&F NC YTD*	35	6491	1	23	109	12600	19	2466	319	49934

Other Manufacturing Technology

1000000000	0	986	0	317	0	1069	0	1246	0	13310
2000000000	0	2061	0	63	0	348	0	545	0	5913
2710003070	0	8	0	0	0	0	0	4	0	145
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	636	0	0	0	58	0	41	0	2049
8456100000	0	0	0	0	1	12	0	0	5	443
200000	0	0	0	0	0	0	0	0	1	15
8477106010	0	0	0	0	0	0	32	1324	1	60
106070	2	47	0	0	0	0	3	941	14	2842
200010	0	0	0	0	0	0	0	0	10	286
200050	2	82	0	0	0	0	0	0	2	47
300000	29	44	0	0	2	215	1	1942	2	835
400000	0	0	0	0	2	16	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	1	54	1	12	0	0	6	441
800000	4	35	0	0	19	296	3	45	102	2768
8479899040	0	0	0	0	0	0	0	0	218	2226
908040	0	4	0	3	0	12	0	0	0	1104
8537100030	0	0	0	0	7	98	2	37	14	255
9024100000	0	89	0	7	0	21	0	27	0	970
9031100000	0	0	0	0	0	96	0	0	0	761
300000	0	0	0	0	0	0	0	0	0	71
9032810040	1227	64	361	18	1019	51	0	0	1123	174

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	5	55	22	104	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	65	0	0	0	0
210080	0	0	4	169	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	69	3	15	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	17	275	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	49	905	0	0	0	0	0	0	9	110
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	2	34	0	0	1	20	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	201	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	1	16
8463100080	0	0	0	0	0	0	0	0	0	0
200080	1	20	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	29	252
900080	1	92	3	79	1	20	0	0	3	48
9800000002	117	1261	12	86	0	0	0	0	0	0
9900000002	6	5	34	34	0	0	0	0	8	3
Month Tot	174	2284	79	1000	27	204	1	20	50	428
Y-T-D Tot	328	10467	334	9743	280	5303	7	51	180	5660
NC YTD Tot	3	2629	36	4031	0	0	0	0	3	589
C&F Month	183	3999	145	1202	308	1363	13	35	139	2001
C&F Y-T-D	481	22381	1020	14620	774	15427	71	182	1099	13789
C&F NC YTD*	28	10212	80	7030	10	3031	0	0	42	2287

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
1000000000	0	490	0	4853	0	247	0	24	0	1253
2000000000	0	72	0	321	0	438	0	49	0	334
2710003070	0	0	0	30	0	0	0	13	0	5
8428900010	0	0	18	523	0	0	0	0	0	0
8431390090	0	5	0	75	0	19	0	5	0	23
8456100000	0	0	0	0	0	0	0	0	20	460
200000	0	0	0	0	0	0	0	0	1	13
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	6	140	4	89	2	1109	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	2	45	1	73
510090	0	0	0	0	3	840	2	17	0	0
590000	0	0	2	19	3	39	0	0	3	402
800000	1	465	2	29	1	336	4	63	1	14
8479899040	0	0	5	31	0	0	0	0	22	848
908040	0	0	0	101	0	0	0	0	0	32
8537100030	0	0	19	268	0	0	0	0	4	67
9024100000	0	11	0	180	0	8	0	0	0	335
9031100000	0	76	0	0	0	471	0	0	0	4
300000	0	0	0	0	0	0	0	0	0	0
9032810040	141	15	3091	157	146	7	0	0	4822	312

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	1	33
8462100030	1	209	0	0	0	0	0	0	0	0
100050	0	0	7	358	1	107	3	241	0	0
210080	0	0	4	610	0	0	13	518	0	0
290030	0	0	0	0	0	0	1	28	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	7	79	1	6	0	0	10	266	0	0
310080	0	0	0	0	0	0	1	50	0	0
390050	0	0	0	0	0	0	9	194	0	0
410080	0	0	0	0	0	0	6	509	7	530
490050	2	31	0	0	0	0	6	35	0	0
910060	2	92	0	0	0	0	1	51	0	0
910090	3	111	1	13	0	0	44	728	0	0
990030	0	0	0	0	6	136	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	4	215	2	1935	0	0	33	503	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	81	4	159	0	0	6	119	0	0
900080	9	284	1	11	21	1120	22	294	6	156
9800000002	21	159	3	57	3	56	117	991	0	0
9900000002	76	44	37	33	0	0	149	122	3	5
Month Tot	126	1305	60	3182	31	1418	421	4649	17	723
Y-T-D Tot	1048	18460	406	20054	66	3129	3079	28993	155	3990
NC YTD Tot	18	2832	32	2672	8	201	64	4058	26	2352
C&F Month	687	4222	157	8992	137	1598	1522	9238	81	973
C&F Y-T-D	3107	34010	1298	47589	250	3772	8268	57432	454	6517
C&F NC YTD*	63	7865	83	11701	8	201	183	11446	35	3211

Other Manufacturing Technology

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	4723	0	2130	0	240	0	3968	0	434
2000000000	0	562	0	1147	0	369	0	2043	0	143
2710003070	0	57	0	9	0	0	0	65	0	0
8428900010	0	0	1	13	0	0	0	0	0	0
8431390090	0	201	0	36	0	0	0	265	0	21
8456100000	20	755	0	0	0	0	0	0	3	61
200000	1	13	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	3	164	0	0
106070	3	199	0	0	0	0	12	708	0	0
200010	0	0	0	0	0	0	5	451	0	0
200050	0	0	33	352	0	0	2	191	0	0
300000	0	0	30	2788	0	0	6	2201	0	0
400000	0	0	0	0	0	0	4	46	0	0
510010	1	8	0	0	2	84	0	0	0	0
510090	0	0	0	0	4	16	5	57	0	0
590000	9	227	0	0	0	0	7	191	0	0
800000	4	77	49	1606	0	0	57	1788	6	94
8479899040	5	176	2	83	0	0	14	34	1	8
908040	0	298	0	41	0	4	0	8	0	72
8537100030	8	122	11	144	1	16	1	22	2	19
9024100000	0	1145	0	1098	0	5	0	179	0	187
9031100000	0	9	0	116	0	0	0	201	0	0
300000	0	712	0	517	0	0	0	3	0	11
9032810040	1806	175	4377	253	0	0	2926	228	6792	347

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	1	37
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	6	254	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	25	0	0	0	0	16	245	1	14
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	2	286	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	45	1	1015	1	9	1	3	11	104
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	2	1472
990030	0	0	0	0	0	0	0	0	0	0
990040	1	30	0	0	0	0	4	199	0	0
990060	0	0	0	0	1	27	2	108	0	0
8463100080	0	0	0	0	0	0	1	426	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	4	58	0	0	0	0	2	50
900080	2	21	0	0	0	0	0	0	0	0
9800000002	3	348	18	353	0	0	15	299	0	0
9900000002	20	16	0	0	57	48	20	7	6	5
Month Tot	29	485	29	1680	61	370	59	1286	23	1681
Y-T-D Tot	252	3272	78	3322	188	1381	219	8987	64	2428
NC YTD Tot	4	261	3	115	1	30	20	1475	1	68
C&F Month	216	1709	93	2194	403	1025	108	1433	83	1774
C&F Y-T-D	1133	7676	282	5998	824	4409	659	12387	186	3574
C&F NC YTD*	14	781	27	1113	3	449	34	2419	3	190

Other Manufacturing Technology

1000000000	0	977	0	453	0	404	0	1158	0	466
2000000000	0	136	0	1198	0	107	0	122	0	75
2710003070	0	52	0	16	0	11	0	187	0	10
8428900010	0	0	0	0	1	115	0	0	0	0
8431390090	0	126	0	0	0	0	0	12	0	0
8456100000	0	0	0	0	0	0	5	510	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	2	150	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	2	20	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	12	216	32	588
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	1	76	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	1	6	0	0	2	34	0	0
800000	1	10	0	0	0	0	0	0	1	16
8479899040	4	25	0	0	49	680	0	0	0	0
908040	0	11	0	21	0	4	0	0	0	0
8537100030	4	52	1	15	2	25	1	33	2	21
9024100000	0	59	0	176	0	34	0	314	0	8
9031100000	0	44	0	0	0	0	0	87	0	11
300000	0	28	0	0	0	0	0	40	0	0
9032810040	871	99	637	38	0	0	2730	268	17435	52

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	14	0	0	0	0	0	0	5	22
8462100030	0	0	0	0	0	0	4	798	0	0
100050	12	1158	0	0	1	33	0	0	3	171
210080	5	200	0	0	0	0	1	274	2	123
290030	0	0	0	0	0	0	0	0	1	69
290040	0	0	0	0	0	0	0	0	1	9
290050	5	145	0	0	0	0	3	125	5	266
310080	1	31	0	0	0	0	0	0	0	0
390050	3	43	0	0	0	0	1	8	5	85
410080	1	59	0	0	0	0	0	0	0	0
490050	9	1634	0	0	0	0	3	36	5	140
910060	1	42	0	0	0	0	0	0	0	0
910090	0	0	2	76	0	0	0	0	4	324
990030	0	0	0	0	2	50	0	0	2	1460
990040	2	1161	0	0	0	0	0	0	1	153
990060	6	667	0	0	0	0	0	0	2	37
8463100080	0	0	0	0	0	0	6	66	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	6	0	0	2	54	2	20	4	88
900080	63	1976	0	0	1	10	27	538	48	880
9800000002	2	86	0	0	1	183	11	90	24	678
9900000002	410	122	5	7	7	6	58	50	179	102
Month Tot	524	7344	7	83	14	337	116	2004	291	4608
Y-T-D Tot	1337	23727	19	695	159	863	886	13436	1481	30329
NC YTD Tot	30	3368	1	136	3	79	10	1200	44	4416
C&F Month	771	10483	7	83	101	782	329	4655	1252	8415
C&F Y-T-D	3666	53731	34	3936	647	4522	2346	35123	5733	52559
C&F NC YTD*	153	23239	1	136	6	296	39	5977	119	12224

Other Manufacturing Technology

1000000000	0	5526	0	0	0	236	0	5826	0	7895
2000000000	0	689	0	0	0	418	0	1683	0	4620
2710003070	0	8	0	0	0	0	0	65	0	6229
8428900010	13	195	0	0	0	0	0	0	24	296
8431390090	0	361	0	0	0	24	0	50	0	1145
8456100000	0	0	0	0	0	0	2	81	8	210
200000	2	39	0	0	0	0	3	75	0	0
8477106010	0	0	0	0	0	0	0	0	1	27
106070	4	422	0	0	1	51	3	300	5	847
200010	0	0	0	0	1	13	0	0	0	0
200050	3	479	0	0	0	0	3	88	4	349
300000	5	12	0	0	0	0	0	0	5	90
400000	0	0	0	0	1	44	0	0	0	0
510010	5	169	0	0	0	0	0	0	9	211
510090	0	0	0	0	0	0	0	0	3	111
590000	8	161	0	0	0	0	1	43	3	30
800000	24	323	0	0	5	18	53	124	35	831
8479899040	7	139	0	0	0	0	79	1039	29	215
908040	0	163	0	0	0	0	0	62	0	98
8537100030	64	1358	0	0	0	0	14	204	16	268
9024100000	0	829	0	4	0	0	0	686	0	615
9031100000	0	67	0	0	0	0	0	296	0	280
300000	0	44	0	0	0	0	0	5	0	49
9032810040	5115	670	0	0	226	53	2318	140	3729	307

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	17	130	2	56	19	186
East Germany	0	0	0	0	0	0
Finland	3	10	4	3	7	13
Greece	16	11	8	194	24	205
Hungary	0	0	1	112	1	112
Iceland	0	0	0	0	0	0
Ireland	8	129	11	64	19	193
Luxembourg	0	0	5	5	5	5
Norway	4	57	0	0	4	57
Poland	0	0	0	0	0	0
Portugal	1	19	1	19	2	37
Romania	0	0	0	0	0	0
Sweden	14	786	2	28	16	813
Turkey	0	0	4	90	4	90
Yugoslavia	0	0	3	15	3	15
Oth Europe	1	53	0	0	1	53
TOTAL	1197	13329	1333	14669	2530	27999
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	0	0	0	0
Belize	1	3	0	0	1	3
Bermuda	0	0	0	0	0	0
Costa Rica	12	117	1	21	13	139
Dominican Rep	1	9	2	7	3	15
El Salvador	5	181	0	0	5	181
Guatemala	0	0	0	0	0	0
Haiti	0	0	0	0	0	0
Honduras	21	45	8	18	29	62
Jamaica	0	0	22	152	22	152
Panama	46	112	2	40	48	152
Trinidad	0	0	0	0	0	0
Oth N & C Am.	0	0	1	23	1	23
TOTAL	1767	13268	891	11117	2658	24385
SOUTH AMERICA						
Argentina	6	310	0	0	6	310
Bolivia	0	0	0	0	0	0
Chile	18	11	89	42	107	52
Colombia	6	88	5	312	11	399
Ecuador	0	0	4	4	4	4
Paraguay	0	0	0	0	0	0
Peru	86	56	3	98	89	154
Uruguay	0	0	0	0	0	0
Oth South Am.	1	48	0	0	1	48
TOTAL	225	2214	147	1245	372	3459
OCEANIA						
New Zealand	0	0	1	197	1	197
Oth Oceania	50	3	0	0	50	3
TOTAL	158	303	25	656	183	959

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	511	636	57	284	568	920
Iran	0	0	0	0	0	0
Iraq	6	533	1	1082	7	1615
Israel	51	54	11	505	62	559
Jordan	0	0	0	0	0	0
Kuwait	0	0	1	153	1	153
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	1	6	0	0	1	6
Pakistan	8	223	0	0	8	223
Philippines	30	43	14	284	44	327
Qatar	0	0	0	0	0	0
Saudi Arabia	15	47	15	536	30	583
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	8	48	0	0	8	48
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	1992	14851	629	14709	2621	29559
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	1	14	6	143	7	158
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	13	27	7	123	20	150
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	14	41	13	267	27	308

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - June 90

RELEASED: August 29, 1990

		TOTAL UNITS	YTD $000
8456300000	Electro-discharge machines	40	2893
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	50	8768
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	10	2043
100035	Horiz. mach. ctrs., ATC	35	9690
100045	Mach. ctrs., n.e.c.	142	16952
200010	Unit construction mach. (single station transfer), NC	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468
300010	Multi-station transfer machines, NC	7	11259
300090	Multi-station transfer machines, non-NC	22	4138
8458110010	Horiz. lathes, multiple spindle, NC	15	3582
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	181	13796
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	30	4048
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	14	4634
190030	Horiz. engine or toolroom lathes, non-NC	74	1460
190050	Automatic bar and/or chucking mach., single spindle, non-NC	6	239
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	27	1233
190090	Horiz. lathes, n.e.c., non-NC	213	2670
911060	Vertical turret lathes, multiple spindle, NC	1	63
911080	Vertical turret lathes, n.e.c., NC	2	316
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	14	657
915070	Vertical lathes, excl. VTL's, n.e.c., NC	14	1650
991050	Vertical turret lathes, non-NC	23	572
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	49	3173
8459100000	Way-type unit head machines	14	1957
210080	Other drilling machines, NC	54	4675
290040	Drilling machines, multiple spindle, non-NC	14	715
290050	Drilling machines, radial, non-NC	17	145
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	52	1002
290090	Drilling machines, n.e.c., non-NC	443	2733
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	1481
310070	Boring-milling mach., n.e.c., NC	8	385
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	21	799
400040	Boring machines, vertical, NC	2	899
400050	Boring machines, vertical, non-NC	29	491
400070	Boring machines, n.e.c., NC	7	2536
400080	Boring machines, n.e.c., non-NC	18	849
510080	Milling machines, knee type, NC	11	713
590030	Milling machines, knee type, non-NC	49	1549
610080	Milling machines, excl. knee type, n.e.c., NC	33	9853
690050	Milling machines, profile, dup., or die sinking, non-NC	22	511
690070	Milling machines, bed type, non-NC	1	50
690090	Milling machines, n.e.c., non-NC	119	4782
700020	Threading or tapping machines, n.e.c., NC	16	749
700080	Threading or tapping machines, n.e.c., non-NC	235	2484
8460110080	Flat surface grinding mach., NC	35	3284
190010	Flat surface grinding mach., recip.-table type, non-NC	29	565
190050	Flat surface grinding mach., n.e.c., non-NC	22	3635
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	49	15041
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	16	2206
290030	Grinding mach., internal cylindrical, non-NC	24	2455
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	182	7517
310080	Sharpening machines (tool & cutter grinding), NC	26	1646
390050	Sharpening machines (tool & cutter grinding), non-NC	461	9421
400060	Honing or lapping machines, NC	0	0
400080	Honing or lapping machines, non-NC	351	8240
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	6	765
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	563	9342
8461100060	Planing machines, NC	1	111
100080	Planing machines, non-NC	177	5304
200010	Shaping or slotting machines, NC	3	87
200090	Shaping or slotting machines, non-NC	23	581
300060	Broaching machines, NC	10	1139
300080	Broaching machines, non-NC	18	1245
401050	Gear hobbers	12	2040
401070	Gear shapers	18	3684
401090	Gear cutting machines, n.e.c.	48	15581
405060	Gear grinding or finishing machines	42	3397
500050	Sawing or cutting-off machines, NC	83	2576
500090	Sawing or cutting-off machines, non-NC	758	9810
9000000001	Metal cutting machine tools, n.e.c.	757	14846
9800000001	Used or rebuilt machine tools	2473	33122
9900000001	Machine tools valued at less than $2,500	18684	11198
	Y-T-D Cutting Total	27020	307315
	NC Y-T-D Cutting Total*	994	131509

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - June 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	17	1410
8457100015	0	0	0	0	11	1329	0	0	26	5079
100025	0	0	0	0	0	0	0	0	8	1798
100035	0	0	0	0	14	2964	0	0	7	1388
100045	0	0	0	0	27	3677	1	297	23	2172
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	2	1860
300090	0	0	0	0	0	0	0	0	0	0
8458110010	1	1550	0	0	0	0	0	0	9	1540
110030	5	574	0	0	41	3202	0	0	11	840
110050	0	0	0	0	13	1351	0	0	10	1449
110090	0	0	0	0	0	0	2	575	12	4059
190030	1	29	0	0	0	0	0	0	7	322
190050	0	0	0	0	0	0	0	0	4	154
190070	0	0	0	0	0	0	0	0	1	57
190090	31	83	0	0	0	0	0	0	40	793
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	1	23	1	23
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	9	174
995090	2	61	0	0	0	0	0	0	12	346
8459100000	0	0	0	0	1	181	2	151	0	0
210080	1	33	0	0	0	0	2	71	13	1955
290040	0	0	0	0	0	0	0	0	4	139
290050	0	0	0	0	0	0	0	0	14	98
290070	0	0	0	0	0	0	0	0	27	255
290090	10	48	0	0	0	0	14	119	192	1053
310010	0	0	0	0	0	0	2	759	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	29
390040	2	250	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	4	334
400040	0	0	0	0	0	0	0	0	2	899
400050	7	119	0	0	0	0	0	0	10	186
400070	0	0	0	0	0	0	0	0	7	2536
400080	0	0	0	0	0	0	0	0	5	368
510080	1	55	0	0	0	0	0	0	7	438
590030	12	415	0	0	0	0	0	0	21	542
610080	2	2471	0	0	0	0	0	0	5	714
690050	0	0	0	0	0	0	1	16	0	0
690070	0	0	0	0	0	0	0	0	1	50
690090	0	0	0	0	0	0	4	793	16	261
700020	1	17	1	23	3	76	0	0	2	92
700080	4	79	0	0	8	657	0	0	66	685
8460110080	0	0	0	0	0	0	2	44	4	1178
190010	0	0	0	0	0	0	0	0	10	288
190050	4	861	0	0	0	0	1	131	4	1013
210080	0	0	0	0	0	0	1	196	16	7061
290010	0	0	0	0	0	0	0	0	3	190
290030	0	0	0	0	0	0	0	0	1	20
290050	0	0	0	0	0	0	19	758	36	1379
310080	2	57	0	0	0	0	0	0	1	202
390050	1	46	0	0	1	9	4	29	131	5715
400060	0	0	0	0	0	0	0	0	0	0
400080	10	98	4	51	1	8	1	6	32	636
900060	0	0	0	0	0	0	0	0	2	436
900080	13	147	2	17	0	0	2	187	130	1578
8461100060	0	0	0	0	0	0	0	0	1	111
100080	1	17	1	40	0	0	6	17	0	0
200010	0	0	0	0	0	0	0	0	1	48
200090	0	0	0	0	0	0	0	0	4	82
300060	0	0	0	0	0	0	0	0	2	712
300080	3	50	0	0	0	0	0	0	9	370
401050	0	0	0	0	0	0	0	0	1	63
401070	0	0	0	0	0	0	4	1778	11	1416
401090	2	1153	0	0	0	0	3	1453	1	487
405060	0	0	0	0	0	0	0	0	3	1020
500050	0	0	0	0	0	0	0	0	56	2103
500090	39	360	0	0	9	170	5	95	167	1794
9000000001	0	0	0	0	0	0	6	22	145	1055
9800000001	66	945	2	9	8	287	134	1150	362	4224
9900000001	904	489	75	49	199	258	266	29	1496	1625
Y-T-D Tot	1125	10007	85	190	336	14171	483	8699	3225	68903
NC YTD Tot*	13	4758	1	23	109	12600	11	1965	236	38865

Please see notes on last page of the metal forming section.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - June 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	35
8457100015	0	0	0	0	0	0	0	0	1	140
100025	0	0	0	0	0	0	0	0	0	0
100035	1	617	0	0	0	0	0	0	0	0
100045	8	3824	1	202	1	223	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	89	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	200
8458110010	0	0	1	66	0	0	0	0	0	0
110030	2	217	12	1015	0	0	0	0	0	0
110050	0	0	2	388	2	498	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	5	6	91	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	10	213
190090	0	0	0	0	0	0	0	0	1	7
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	867	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	25	10	497
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	48	0	0	0	0	1	39
290040	0	0	0	0	4	169	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	4	8	47	0	0	4	144
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	18	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	1	25	0	0	1	19
610080	13	2138	2	166	1	716	0	0	0	0
690050	0	0	0	0	1	6	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	13	0	0	0	0	0	0	1	316
700020	0	0	0	0	1	341	0	0	0	0
700080	0	0	1	15	4	17	1	5	1	126
8460110080	1	787	0	0	0	0	0	0	0	0
190010	0	0	0	0	3	31	0	0	0	0
190050	1	186	0	0	0	0	1	71	6	808
210080	0	0	3	584	1	359	0	0	0	0
290010	5	830	0	0	0	0	0	0	0	0
290030	2	73	0	0	8	1948	0	0	1	27
290050	2	342	0	0	14	501	0	0	7	444
310080	0	0	1	32	0	0	0	0	0	0
390050	51	1100	1	44	4	113	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	13	261	10	65	2	174	0	0	12	145
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	12	88	5	37	0	0	35	342
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	62	0	0	0	0	0	0	1	22
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	16	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	445	1	228	0	0	0	0	0	0
401050	0	0	0	0	2	840	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	1	600	1	547	0	0	3	1244
405060	0	0	0	0	0	0	0	0	1	920
500050	0	0	0	0	0	0	0	0	0	0
500090	3	8	8	138	5	1371	1	9	16	256
9000000001	1	15	21	499	2	27	0	0	39	1545
9800000001	33	983	19	237	78	1144	0	0	29	342
9900000001	12	8	581	278	342	90	60	20	736	301
Y-T-D Tot	153	11914	686	4877	494	10124	64	131	919	8129
NC YTD Tot*	25	7583	44	2999	10	3031	0	0	39	1698

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - June 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	10	647	0	0	0	0	5	214	1	33
8457100015	0	0	2	279	0	0	3	601	0	0
100025	0	0	1	120	0	0	0	0	0	0
100035	0	0	2	982	0	0	0	0	0	0
100045	1	36	27	2922	0	0	26	1806	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	3	415	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	18	2178	0	0
8458110010	0	0	1	90	0	0	2	246	0	0
110030	10	831	5	343	0	0	3	187	3	160
110050	0	0	1	64	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	25	0	0	0	0	14	245	0	0
190050	0	0	0	0	0	0	1	24	0	0
190070	11	319	1	340	0	0	0	0	0	0
190090	11	130	4	22	0	0	93	1249	0	0
911060	0	0	0	0	0	0	1	63	0	0
911080	0	0	0	0	0	0	2	316	0	0
915050	0	0	0	0	0	0	11	501	0	0
915070	1	25	0	0	0	0	11	759	0	0
991050	0	0	0	0	0	0	4	79	0	0
995090	0	0	0	0	0	0	8	272	0	0
8459100000	0	0	4	345	0	0	2	266	0	0
210080	0	0	3	130	0	0	9	488	0	0
290040	0	0	5	240	0	0	1	167	0	0
290050	0	0	0	0	0	0	3	47	0	0
290070	0	0	0	0	0	0	17	109	0	0
290090	21	220	22	223	0	0	52	266	1	6
310010	0	0	1	809	0	0	0	0	0	0
310040	0	0	0	0	0	0	2	207	0	0
310070	0	0	2	124	0	0	1	32	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	7	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	7	103	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	128	0	0	9	327	0	0
510080	0	0	0	0	0	0	1	136	0	0
590030	1	126	0	0	2	67	1	26	0	0
610080	0	0	3	2724	0	0	3	102	1	542
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	2	31	7	638	0	0	83	2439	0	0
700020	0	0	1	23	0	0	0	0	0	0
700080	0	0	0	0	0	0	31	100	3	80
8460110080	4	267	0	0	0	0	19	845	2	64
190010	0	0	0	0	0	0	7	113	0	0
190050	0	0	1	58	0	0	0	0	0	0
210080	5	1367	2	419	0	0	3	494	0	0
290010	1	53	2	825	0	0	0	0	1	64
290030	1	55	0	0	0	0	2	38	0	0
290050	4	469	0	0	0	0	46	967	6	208
310080	0	0	0	0	0	0	14	459	0	0
390050	84	552	10	450	20	117	8	135	6	41
400060	0	0	0	0	0	0	0	0	0	0
400080	7	92	69	1371	2	27	11	180	4	61
900060	0	0	0	0	0	0	1	44	0	0
900080	69	2004	56	636	1	4	68	1777	2	17
8461100060	0	0	0	0	0	0	0	0	0	0
100080	7	923	37	932	23	200	74	576	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	168	0	0	5	99	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	4	152	0	0
401050	4	213	2	115	0	0	0	0	0	0
401070	0	0	0	0	0	0	2	452	0	0
401090	9	1062	11	5949	0	0	6	496	0	0
405060	2	183	16	694	0	0	2	82	0	0
500050	0	0	0	0	0	0	7	101	2	44
500090	78	852	37	437	4	36	82	985	113	561
9000000001	30	2680	13	736	0	0	47	1222	5	90
9800000001	73	1656	56	3474	1	4	656	4123	52	504
9900000001	1612	734	481	311	131	187	3700	1537	97	54
Y-T-D Tot	2059	15550	892	27536	184	643	5189	28439	299	2527
NC YTD Tot*	45	5033	51	9030	0	0	119	7388	9	860

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - June 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	130	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	7	476	1	91
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	55	0	0
190090	1	13	0	0	1	170	4	25	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	18
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	2	663	0	0	0	0	0	0
210080	1	38	0	0	0	0	7	468	1	31
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	68	0	0	8	37	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	11	66	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	2	62	0	0	0	0	1	47	0	0
610080	1	55	0	0	1	125	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	2	8	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	2	25
190050	0	0	0	0	0	0	2	115	0	0
210080	0	0	0	0	1	294	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	2	178	3	222	4	155	22	734	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	16	159	2	7	0	0	4	59	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	7	80	15	180	14	165	5	31
900060	0	0	0	0	0	0	0	0	0	0
900080	8	85	13	191	16	160	13	96	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	10	0	0	4	705
200010	0	0	0	0	0	0	0	0	0	0
200090	7	27	0	0	0	0	1	7	1	33
300060	8	427	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	575	0	0	0	0
405060	0	0	0	0	11	328	1	10	0	0
500050	0	0	16	184	0	0	0	0	0	0
500090	0	0	5	32	1	18	16	288	1	5
9000000001	97	1606	9	818	37	327	44	509	0	0
9800000001	37	1196	50	383	86	308	13	113	15	80
9900000001	697	351	97	96	442	277	290	232	91	125
Y-T-D Tot	881	4404	204	2676	636	3029	440	3399	122	1146
NC YTD Tot*	10	520	24	998	2	419	14	944	2	122

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - June 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	100	0	0	0	0	3	148	1	176
8457100015	2	459	0	0	0	0	0	0	5	881
100025	0	0	0	0	0	0	0	0	1	125
100035	4	1674	0	0	0	0	4	1250	3	816
100045	7	493	0	0	2	107	4	262	6	365
200010	0	0	0	0	0	0	0	0	0	0
200090	1	464	0	0	0	0	2	2500	0	0
300010	5	9400	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	2	1760	0	0
8458110010	0	0	0	0	0	0	0	0	1	90
110030	77	5385	0	0	0	0	8	682	4	362
110050	1	80	0	0	0	0	0	0	1	217
110090	0	0	0	0	0	0	0	0	0	0
190030	38	669	0	0	3	43	1	15	2	14
190050	1	61	0	0	0	0	0	0	0	0
190070	1	94	0	0	0	0	2	156	0	0
190090	12	91	0	0	1	3	2	9	12	74
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	1	110	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	5	163	0	0	0	0	0	0	4	137
995090	13	421	0	0	2	1509	0	0	1	41
8459100000	0	0	0	0	2	208	0	0	1	142
210080	3	159	0	0	0	0	3	180	9	1035
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	6	383	0	0	0	0	0	0	2	255
290090	4	15	0	0	15	69	6	26	84	389
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	1274
310070	0	0	0	0	0	0	0	0	4	199
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	5	393	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	4	65
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	26
510080	0	0	0	0	0	0	0	0	2	84
590030	2	70	0	0	0	0	0	0	5	151
610080	0	0	0	0	0	0	1	100	0	0
690050	0	0	0	0	0	0	20	490	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	3	271	0	0	1	14	1	5	0	0
700020	1	26	0	0	0	0	0	0	6	150
700080	9	204	0	0	41	108	3	9	61	391
8460110080	0	0	0	0	0	0	0	0	3	99
190010	0	0	0	0	1	16	1	11	5	80
190050	2	393	0	0	0	0	0	0	0	0
210080	5	1426	0	0	0	0	6	1553	6	1288
290010	3	189	0	0	0	0	0	0	1	55
290030	0	0	0	0	0	0	9	293	0	0
290050	6	212	0	0	0	0	9	568	2	379
310080	0	0	0	0	0	0	1	713	7	183
390050	45	290	0	0	0	0	36	244	37	310
400060	0	0	0	0	0	0	0	0	0	0
400080	12	222	14	3208	1	5	50	633	55	542
900060	0	0	0	0	0	0	0	0	3	284
900080	24	664	0	0	17	165	29	615	48	532
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	50	8	714	11	1036
200010	0	0	0	0	0	0	2	39	0	0
200090	1	8	0	0	0	0	0	0	2	140
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	1	301	0	0	0	0	2	509	0	0
401070	0	0	0	0	0	0	0	0	1	38
401090	0	0	0	0	5	405	5	1611	0	0
405060	3	34	0	0	0	0	1	70	2	57
500050	2	144	0	0	0	0	0	0	0	0
500090	70	830	1	34	0	0	31	586	66	943
9000000001	41	2080	0	0	3	35	9	87	208	1494
9800000001	62	1897	0	0	12	249	218	5430	411	4384
9900000001	1856	633	0	0	375	170	981	421	3163	2926
Y-T-D Tot	2329	30004	15	3241	488	3659	1460	21687	4252	22231
NC YTD Tot*	123	19871	0	0	3	217	29	4778	75	7808

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - June 90

RELEASED: August 29, 1990

Metal Forming Machine Tools		TOTAL YTD	
		UNITS	$000
8454300010	Die casting machines	203	5593
8462100030	Headers and upsetters, including cold headers	30	9556
100050	Forging or die stamping machines, and hammers, n.e.c.	176	14554
210080	Bending, folding, straight. or flat. mach., incl presses, NC	158	12616
290030	Press brakes, non-NC	109	2674
290040	Bending rolls, non-NC	43	920
290050	Bending, folding, straight., or flat., n.e.c., non-NC	524	13420
310080	Shearing machines, NC	44	4545
390050	Shearing machines, non-NC	202	4261
410080	Punching or notching mach., incl. comb. punch & shear, NC	102	15536
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	486	13719
910060	Hydraulic presses, NC	38	2637
910090	Hydraulic presses, non-NC	383	17521
990030	Presses, n.e.c., NC	78	8480
990040	Presses, mechanical, non-NC	53	6257
990060	Presses, n.e.c., non-NC	742	23851
8463100080	Draw benches for bars, tubes, profiles, wire or the like	91	2496
200080	Thread rolling machines	27	1391
300080	Machines for working wire	351	11171
900080	Metal forming machine tools, n.e.c.	1036	31500
9800000002	Used or rebuilt machine tools	1848	31671
9900000002	Machine tools valued at less than $2,500	7157	5322
	Y-T-D Forming Total	13881	239694
	NC Y-T-D Forming Total	420	43814
	Cutting and Forming Totals:		
	Y-T-D Total	40901	547009
	NC Y-T-D Total*	1414	175323

Other Manufacturing Technology		TOTAL YTD	
		UNITS	$000
1000000000	Machine tool parts and accessories	0	364293
2000000000	Parts for working rubber or plastics - heading 8477	0	146116
2710003070	Quenching or cutting oils	0	15366
8428900010	Industrial robots for lifting, handling, loading or unload	208	3597
8431390090	Parts industrial robots, handling and loading - heading 8428	0	37082
8456100000	Laser, light or photon beam for working any material	406	19700
200000	Ultrasonic process for working any material	55	1295
8477106010	Injection molding mach., for rubber or oth. thermosetting	118	7862
106070	Injection molding mach., for thermoplastics	196	24548
200010	Extruders for rubber or other thermosetting materials	204	8157
200050	Extruders for processing thermoplastics	425	19574
300000	Blow molding machines	335	25756
400000	Vacuum-molding and other thermoforming machines	4185	7199
510010	Machines for molding or retreading pneumatic tires	466	9498
510090	Machines for molding or otherwise forming inner tubes	190	23836
590000	Machines for molding or otherwise forming n.e.c.	649	12256
800000	Machines for working rubber or plastics n.e.c.	2046	53885
8479899040	Industrial robots, n.e.c.	3019	30138
908040	Industrial robot parts	0	16948
8537100030	Numerical controls for controlling machine tools	1125	16331
9024100000	Machines and appliances for testing metals	0	36373
9031100000	Machines for balancing mechanical parts	0	16472
300000	Profile projectors	0	4518
9032810040	Industrial process control instr., hydraulic or pneumatic	323463	19764

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - June 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	9	21	7	40	2	22	1	13	7	2184
8462100030	0	0	0	0	0	0	0	0	2	217
100050	1	67	0	0	1	38	1	51	17	1979
210080	18	1544	0	0	0	0	4	149	35	4242
290030	0	0	0	0	0	0	6	251	80	1578
290040	1	8	0	0	1	29	0	0	15	243
290050	7	119	0	0	0	0	2	22	182	2620
310080	2	146	0	0	0	0	0	0	10	1882
390050	7	106	0	0	9	146	0	0	55	1116
410080	1	34	0	0	0	0	3	339	20	2346
490050	11	77	2	960	15	132	4	56	105	1364
910060	1	10	0	0	0	0	1	14	3	840
910090	4	69	0	0	4	1043	0	0	18	1202
990030	0	0	0	0	0	0	0	0	15	1758
990040	0	0	1	566	0	0	0	0	9	343
990060	10	392	0	0	0	0	30	536	74	1169
8463100080	5	65	0	0	7	97	3	53	14	433
200080	0	0	0	0	0	0	0	0	6	113
300080	4	149	2	42	0	0	30	714	37	950
900080	9	213	1	7	0	0	10	256	100	1530
9800000002	5	180	0	0	4	171	7	181	414	6580
9900000002	121	93	24	17	471	417	211	113	1017	948
Y-T-D Tot	216	3293	37	1632	514	2094	313	2746	2235	35638
NC YTD Tot	22	1734	0	0	0	0	8	501	83	11068
C&F YTD	1341	13300	122	1823	850	16265	796	11445	5460	104542
C&F NC YTD*	35	6491	1	23	109	12600	19	2466	319	49934

Other Manufacturing Technology

1000000000	0	7266	0	959	0	4579	0	5288	0	84447
2000000000	0	4932	0	589	0	2841	0	3032	0	39621
2710003070	0	144	0	5	0	5	0	25	0	467
8428900010	1	11	0	0	0	0	0	0	34	981
8431390090	0	1959	0	86	0	338	0	1954	0	7839
8456100000	1	67	0	0	6	239	0	0	15	1374
200000	0	0	0	0	0	0	0	0	5	84
8477106010	1	38	0	0	0	0	32	1324	6	340
106070	4	177	5	392	0	0	6	1192	57	8911
200010	4	102	0	0	0	0	0	0	123	4111
200050	4	727	0	0	1	200	16	1358	83	2438
300000	40	328	0	0	2	215	8	2680	10	2417
400000	2	49	0	0	6	51	14	440	37	2007
510010	6	1305	0	0	3	34	4	172	25	2315
510090	2	190	0	0	0	0	0	0	0	0
590000	5	81	3	85	42	658	2	76	48	2200
800000	27	813	3	44	35	546	11	106	564	18968
8479899040	10	53	0	0	5	85	2	76	1937	15957
908040	0	35	0	16	0	50	0	0	0	8216
8537100030	15	152	1	12	9	139	3	55	61	818
9024100000	0	379	0	89	0	204	0	813	0	4483
9031100000	0	203	0	0	0	129	0	253	0	5439
300000	0	27	0	0	0	0	0	233	0	309
9032810040	13011	894	8499	429	8092	414	119	16	11984	798

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - June 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	35	1347	16	144	37	260	4	17	0	0
8462100030	0	0	2	1657	0	0	0	0	2	514
100050	0	0	0	0	2	105	0	0	3	777
210080	0	0	4	169	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	1	32	1	47	0	0	0	0	8	78
290050	6	328	25	530	6	883	1	7	2	12
310080	0	0	0	0	0	0	0	0	0	0
390050	4	133	18	286	0	0	0	0	0	0
410080	2	2624	19	2568	0	0	0	0	0	0
490050	55	1299	5	180	4	45	1	7	26	478
910060	1	5	0	0	0	0	0	0	0	0
910090	20	679	7	155	0	0	1	20	4	104
990030	0	0	13	1294	0	0	0	0	3	589
990040	6	651	2	719	0	0	0	0	0	0
990060	0	0	2	13	3	66	0	0	6	149
8463100080	0	0	6	176	2	83	0	0	0	0
200080	1	20	0	0	2	51	0	0	0	0
300080	4	559	16	221	0	0	0	0	40	602
900080	9	1491	12	836	31	398	0	0	13	1955
9800000002	117	1261	37	643	83	3343	0	0	12	362
9900000002	67	37	149	105	110	68	0	0	61	40
Y-T-D Tot	328	10467	334	9743	280	5303	7	51	180	5660
NC YTD Tot	3	2629	36	4031	0	0	0	0	3	589
C&F YTD	481	22381	1020	14620	774	15427	71	182	1099	13789
C&F NC YTD*	28	10212	80	7030	10	3031	0	0	42	2287

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	2071	0	13018	0	2268	0	932	0	8676
2000000000	0	3102	0	2166	0	2922	0	230	0	1788
2710003070	0	14	0	30	0	0	0	264	0	18
8428900010	18	178	36	887	0	0	0	0	14	165
8431390090	0	428	0	821	0	255	0	18	0	245
8456100000	15	506	5	808	0	0	0	0	26	932
200000	0	0	2	27	0	0	0	0	2	34
8477106010	0	0	0	0	0	0	0	0	5	294
106070	0	0	3	146	0	0	0	0	1	104
200010	0	0	0	0	0	0	0	0	0	0
200050	38	1081	9	279	14	1635	1	72	11	337
300000	0	0	4	237	0	0	0	0	3	17
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	2	47	1	24	51	55	9	376
510090	0	0	1	660	3	840	2	17	0	0
590000	0	0	33	493	31	440	0	0	21	682
800000	58	3722	4	214	66	1271	6	81	10	893
8479899040	1	58	56	486	1	9	0	0	94	1479
908040	0	43	0	445	0	5	0	0	0	165
8537100030	0	0	154	2072	3	41	0	0	38	561
9024100000	0	1693	0	1029	0	177	0	371	0	740
9031100000	0	94	0	14	0	847	0	19	0	75
300000	0	0	0	502	0	0	0	0	0	147
9032810040	3691	210	14613	848	979	71	94	5	20633	1476

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - June 90

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	50	6	616	6	27	8	96	3	48
8462100030	10	3855	1	556	0	0	0	0	0	0
100050	22	1690	14	770	1	107	18	990	0	0
210080	3	1092	13	977	2	65	30	1828	2	180
290030	1	4	0	0	0	0	8	241	0	0
290040	0	0	0	0	0	0	8	234	0	0
290050	23	525	32	763	8	42	67	2310	7	314
310080	9	970	3	700	0	0	7	311	11	444
390050	0	0	5	88	2	36	43	734	0	0
410080	0	0	1	95	0	0	13	1251	13	1728
490050	62	1540	4	59	2	11	48	821	2	7
910060	2	92	3	141	0	0	14	668	0	0
910090	5	133	19	4002	0	0	198	4033	4	157
990030	4	678	12	760	6	136	0	0	0	0
990040	2	261	1	45	0	0	1	16	4	252
990060	60	3396	23	3896	0	0	335	3760	29	328
8463100080	0	0	1	102	0	0	10	232	0	0
200080	0	0	0	0	0	0	4	664	1	132
300080	10	244	9	574	2	53	52	979	3	122
900080	56	2863	24	721	33	2583	178	3120	15	232
9800000002	37	756	91	5107	4	69	511	5304	0	0
9900000002	741	311	144	83	0	0	1526	1401	61	45
Y-T-D Tot	1048	18460	406	20054	66	3129	3079	28993	155	3990
NC YTD Tot	18	2832	32	2672	8	201	64	4058	26	2352
C&F YTD	3107	34010	1298	47589	250	3772	8268	57432	454	6517
C&F NC YTD*	63	7865	83	11701	8	201	183	11446	35	3211

Other Manufacturing Technology

1000000000	0	31897	0	12329	0	1868	0	24342	0	3152
2000000000	0	4837	0	4404	0	1312	0	13417	0	1891
2710003070	0	205	0	49	0	10	0	218	0	92
8428900010	5	84	3	49	3	4	7	43	0	0
8431390090	0	967	0	646	0	39	0	4532	0	568
8456100000	161	7050	7	237	17	519	1	27	12	592
200000	1	13	0	0	0	0	1	33	0	0
8477106010	0	0	5	496	0	0	61	4886	0	0
106070	7	1699	3	224	0	0	51	5820	1	48
200010	0	0	0	0	0	0	33	2117	0	0
200050	22	2214	51	797	2	44	69	1946	2	74
300000	3	3790	33	3444	0	0	85	5770	0	0
400000	104	683	35	1849	3	16	3896	1828	0	0
510010	25	584	0	0	5	136	19	310	0	0
510090	6	262	19	2841	4	16	64	402	2	11
590000	105	841	30	463	0	0	107	1268	7	122
800000	89	2552	97	3486	7	48	454	9042	111	697
8479899040	44	488	58	484	7	112	50	546	7	93
908040	0	754	0	3241	0	13	0	18	0	88
8537100030	26	413	41	524	3	37	4	87	2	19
9024100000	0	5961	0	4955	0	180	0	792	0	290
9031100000	0	126	0	5260	0	0	0	1738	0	8
300000	0	1898	0	715	0	0	0	51	0	18
9032810040	12845	1006	18271	888	102	5	8800	694	49187	2573

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - June 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	3	0	0	0	0	0	0	7	25
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	5	462	2	105	1	400	2	101
210080	3	151	1	31	1	30	9	425	0	0
290030	0	0	7	294	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	7	311	0	0	5	93	24	1029	12	341
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	2	286	2	28	0	0
410080	1	110	0	0	0	0	6	454	0	0
490050	5	612	2	1085	1	9	5	332	11	104
910060	0	0	2	83	0	0	0	0	1	68
910090	1	17	8	128	1	15	3	69	2	1472
990030	0	0	0	0	0	0	5	596	0	0
990040	2	60	0	0	1	120	16	749	0	0
990060	3	70	0	0	3	531	67	2065	0	0
8463100080	0	0	5	124	0	0	1	426	0	0
200080	0	0	9	216	0	0	0	0	0	0
300080	4	118	10	300	1	27	1	25	7	253
900080	7	174	1	169	0	0	15	1947	0	0
9800000002	29	1475	20	422	1	20	32	425	8	56
9900000002	189	171	8	7	170	145	32	16	14	8
Y-T-D Tot	252	3272	78	3322	188	1381	219	8987	64	2428
NC YTD Tot	4	261	3	115	1	30	20	1475	1	68
C&F YTD	1133	7676	282	5998	824	4409	659	12387	186	3574
C&F NC YTD*	14	781	27	1113	3	449	34	2419	3	190

Other Manufacturing Technology

1000000000	0	6369	0	3417	0	3424	0	6188	0	1935
2000000000	0	1429	0	2202	0	991	0	2347	0	836
2710003070	0	196	0	29	0	19	0	617	0	43
8428900010	18	77	0	0	1	115	0	0	0	0
8431390090	0	1009	0	10	0	139	0	396	0	0
8456100000	4	99	9	203	2	165	23	3181	0	0
200000	0	0	9	237	0	0	0	0	0	0
8477106010	2	150	0	0	0	0	0	0	0	0
106070	2	156	0	0	4	170	1	550	0	0
200010	0	0	0	0	0	0	6	836	0	0
200050	0	0	0	0	0	0	1	183	0	0
300000	0	0	10	977	6	424	28	804	39	665
400000	1	10	1	9	9	14	3	21	0	0
510010	2	32	20	578	2	3	1	14	0	0
510090	0	0	0	0	1	24	20	488	0	0
590000	3	46	10	98	30	302	19	785	0	0
800000	15	409	2	497	32	370	6	180	2	49
8479899040	43	260	11	352	117	1380	2	159	0	0
90804[illegible]	0	107	0	119	0	199	0	18	0	0
853710003[illegible]	22	308	5	46	15	210	7	119	8	87
9024100000	0	361	0	1026	0	803	0	785	0	16
9031100000	0	248	0	27	0	5	0	218	0	14
300000	0	101	0	21	0	7	0	172	0	0
9032810040	6768	989	5576	301	804	49	6210	929	47828	283

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 90 - June 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	17	216	0	0	0	0	0	0	36	464
8462100030	0	0	0	0	0	0	12	1698	1	1060
100050	64	5534	0	0	1	33	0	0	21	1345
210080	10	379	0	0	1	28	3	402	19	924
290030	0	0	0	0	0	0	0	0	7	306
290040	0	0	0	0	2	70	0	0	6	179
290050	11	237	0	0	1	35	46	1508	50	1390
310080	2	93	0	0	0	0	0	0	0	0
390050	31	800	0	0	0	0	7	95	17	407
410080	8	1992	0	0	0	0	7	798	8	1199
490050	43	2175	2	132	0	0	13	237	58	1997
910060	7	698	0	0	0	0	0	0	3	18
910090	24	508	11	419	1	7	8	249	40	3039
990030	3	206	1	136	2	50	0	0	14	2276
990040	4	1780	0	0	0	0	1	215	3	481
990060	52	1799	0	0	4	110	19	2543	22	3028
8463100080	12	338	0	0	0	0	19	211	6	156
200080	1	104	0	0	0	0	1	48	2	43
300080	18	338	0	0	5	110	52	1961	44	2829
900080	252	5653	0	0	2	25	90	1915	178	5411
9800000002	45	489	0	0	5	328	59	1197	327	3302
9900000002	733	386	5	7	135	66	549	358	619	478
Y-T-D Tot	1337	23727	19	695	159	863	886	13436	1481	30329
NC YTD Tot	30	3368	1	136	3	79	10	1200	44	4416
C&F YTD	3666	53731	34	3936	647	4522	2346	35123	5733	52559
C&F NC YTD*	153	23239	1	136	6	296	39	5977	119	12224

Other Manufacturing Technology

1000000000	0	41663	0	1094	0	3975	0	38385	0	54751
2000000000	0	7230	0	543	0	2336	0	11130	0	29988
2710003070	0	44	0	0	0	9	0	126	0	12735
8428900010	15	223	0	0	0	0	15	431	38	350
8431390090	0	1800	0	0	0	148	0	405	0	12478
8456100000	25	899	0	0	0	0	9	987	68	1814
200000	16	375	0	0	0	0	5	132	14	359
8477106010	1	100	0	0	2	65	1	80	2	90
106070	16	1390	0	0	1	51	18	2001	16	1518
200010	3	47	0	0	2	53	0	0	33	891
200050	23	848	0	0	0	0	27	931	51	4410
300000	10	1544	0	0	1	24	13	230	40	2190
400000	7	163	0	0	1	44	0	0	66	14
510010	18	602	0	0	22	468	8	282	243	2163
510090	10	3	3	84	0	0	6	117	47	17882
590000	46	632	1	15	0	0	46	1608	60	1361
800000	62	3083	0	0	93	47	97	844	195	5923
8479899040	74	719	1	46	1	6	380	6154	118	1138
908040	0	1173	0	0	0	44	0	1741	0	459
8537100030	456	6872	0	0	0	0	109	1652	143	2106
9024100000	0	3965	0	252	0	143	0	3583	0	3280
9031100000	0	199	0	0	0	223	0	406	0	928
300000	0	50	0	0	0	0	0	128	0	137
9032810040	32073	3089	303	21	3485	357	19237	1144	30259	2275

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8465300000.

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U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	1	205	0	0	1	205
Czechoslovakia	5	33	0	0	5	33
Denmark	32	746	22	101	54	846
East Germany	0	0	2	359	2	359
Finland	163	75	30	570	193	645
Greece	326	790	33	2066	359	2856
Hungary	6	104	10	477	16	581
Iceland	0	0	0	0	0	0
Ireland	30	693	47	196	77	889
Luxembourg	1	5	5	5	6	9
Norway	64	438	5	50	69	488
Poland	15	22	12	1425	27	1448
Portugal	15	29	63	1548	78	1577
Romania	0	0	0	0	0	0
Sweden	150	2739	72	1531	222	4270
Turkey	27	79	27	266	54	345
Yugoslavia	5	1306	7	284	12	1591
Oth Europe	1	53	4	3	5	56
TOTAL	7810	97848	4067	74562	11877	172410
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	1	10	6	11	7	21
Belize	3	12	4	3	7	15
Bermuda	28	18	0	0	28	18
Costa Rica	166	626	12	104	178	729
Dominican Rep	35	221	135	1345	170	1566
El Salvador	5	181	11	155	16	336
Guatemala	10	24	10	71	20	96
Haiti	3	9	5	54	8	62
Honduras	108	415	27	366	135	781
Jamaica	24	85	28	186	52	271
Panama	63	122	7	143	70	265
Trinidad	1	4	4	102	5	106
Oth N & C Am.	16	149	8	181	24	330
TOTAL	8877	99218	5571	67353	14448	166571
SOUTH AMERICA						
Argentina	14	657	17	258	31	915
Bolivia	1	6	0	0	1	6
Chile	131	2258	180	1402	311	3660
Colombia	72	435	69	1319	141	1754
Ecuador	58	191	6	9	64	200
Paraguay	0	0	0	0	0	0
Peru	110	212	11	270	121	482
Uruguay	0	0	0	0	0	0
Oth South Am.	1	48	0	0	1	48
TOTAL	1358	16165	755	6867	2113	23032
OCEANIA						
New Zealand	27	274	22	768	49	1042
Oth Oceania	54	26	2	67	56	93
TOTAL	1206	10307	240	4128	1446	14435

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	1610	2691	140	969	1750	3660
Iran	0	0	21	18	21	18
Iraq	7	537	60	5896	67	6433
Israel	137	2440	48	1692	185	4132
Jordan	0	0	1	5	1	5
Kuwait	2	18	8	293	10	311
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	5	13	0	0	5	13
Pakistan	24	463	0	0	24	463
Philippines	246	697	141	1256	387	1953
Qatar	0	0	0	0	0	0
Saudi Arabia	136	277	81	3132	217	3408
Sri Lanka	2	52	0	0	2	52
Syria	0	0	1	6	1	6
United Arab Emr	33	83	13	19	46	102
Vietnam	0	0	0	0	0	0
Oth Asia	3	24	1	15	4	39
TOTAL	7494	82140	3185	85452	10679	167592
AFRICA						
Algeria	0	0	2	134	2	134
Botswana	0	0	0	0	0	0
Egypt	31	80	37	744	68	824
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	100	199	1	4	101	204
South Africa	140	1131	23	450	163	1582
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	1	217	0	0	1	217
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	3	8	0	0	3	8
Oth Africa	0	0	0	0	0	0
TOTAL	275	1636	63	1332	338	2969

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - June 90

RELEASED: August 29, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	495	31439	56	4170
301050	Electro-discharge machines, n.e.c., NC	123	7235	34	2049
301070	Electro-discharge machines, n.e.c., non-NC	198	3992	24	308
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1181	92975	202	14560
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	68	13934	6	2103
100035	Horiz. mach. ctrs., ATC	361	78956	50	8182
100045	Mach. ctrs., n.e.c.	115	15821	11	2117
200010	Unit construction mach. (single station transfer), NC	14	1447	1	152
200090	Unit construction mach. (single station transfer), non-NC	1	361	0	0
300010	Multi-station transfer machines, NC	29	8289	1	311
300090	Multi-station transfer machines, non-NC	50	17981	2	3688
8458110010	Horiz. lathes, multiple spindle, NC	145	24407	25	4400
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1226	86748	192	13340
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	289	41551	37	5828
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	31	9009	3	2654
190030	Horiz. engine or toolroom lathes, non-NC	2113	23395	334	6443
190050	Automatic bar and/or chucking mach., single spindle, non-NC	536	10673	22	657
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	82	6120	17	2176
190090	Horiz. lathes, n.e.c., non-NC	959	8950	207	1914
911060	Vertical turret lathes, multiple spindle, NC	19	3303	1	204
911080	Vertical turret lathes, n.e.c., NC	21	5228	8	1075
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	30	3494	1	174
991050	Vertical turret lathes, non-NC	64	2542	3	822
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	559	12043	175	4915
8459100000	Way-type unit head machines	0	0	0	0
210080	Other drilling machines, NC	153	9881	11	498
290040	Drilling machines, multiple spindle, non-NC	56	1339	2	22
290050	Drilling machines, radial, non-NC	214	1658	25	215
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	45	568	3	148
290090	Drilling machines, n.e.c., non-NC	244	6594	69	2073
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	439	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	32	3254	3	237
310070	Boring-milling mach., n.e.c., NC	20	829	2	61
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	18	1535	2	39
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	49	1584	3	375
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	34	1045	0	0
400070	Boring machines, n.e.c., NC	26	3116	13	1777
400080	Boring machines, n.e.c., non-NC	99	3840	10	1633
510080	Milling machines, knee type, NC	345	4961	34	511
590030	Milling machines, knee type, non-NC	1930	12977	310	2019
610080	Milling machines, excl. knee type, n.e.c., NC	171	10854	38	3520
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344	1	24
690070	Milling machines, bed type, non-NC	39	2042	5	226
690090	Milling machines, n.e.c., non-NC	368	9248	93	775
700020	Threading or tapping machines, n.e.c., NC	85	4385	7	296
700080	Threading or tapping machines, n.e.c., non-NC	96	2467	12	244
8460110080	Flat surface grinding mach., NC	79	6794	6	948
190010	Flat surface grinding mach., recip.-table type, non-NC	486	6321	69	709
190050	Flat surface grinding mach., n.e.c., non-NC	1068	10809	136	1141
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	228	39002	38	4545
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	272	8150	57	2142
290030	Grinding mach., internal cylindrical, non-NC	63	4699	26	920
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	671	19438	162	2726
310080	Sharpening machines (tool & cutter grinding), NC	122	2546	14	451
390050	Sharpening machines (tool & cutter grinding), non-NC	429	5128	34	366
400060	Honing or lapping machines, NC	22	2249	4	425
400080	Honing or lapping machines, non-NC	125	4139	37	1172
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	25	1344	1	91
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	735	20326	167	5419
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	3	40	2	35
200010	Shaping or slotting machines, NC	68	2347	0	0
200090	Shaping or slotting machines, non-NC	121	1688	5	20
300060	Broaching machines, NC	3	7114	1	1996
300080	Broaching machines, non-NC	58	1621	3	252
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	79	5206	4	221
401040	Gear shapers	12	3204	1	25
401060	Gear cutting machines, n.e.c.	65	423	1	3
405050	Gear grinding or finishing for bevel gears	55	626	0	0
405070	Gear grinding or finishing machines, n.e.c.	47	11696	8	2494
500050	Sawing or cutting-off machines, NC	57	3221	3	246
500090	Sawing or cutting-off machines, non-NC	1008	14533	136	2351
9000000001	Metal cutting machine tools, n.e.c.	203	5618	19	1452
9800000001	Used or rebuilt machine tools	1862	15080	446	2931
9900000001	Machine tools valued at less than $2,500	450762	47302	82958	7774
	Cutting Total			86393	137787
	Y-T-D Cutting Total	471497	843517		
	NC Y-T-D Cutting Total	5593	526451		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - June 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	1	100	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	4	1102
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	206	0	0
110090	0	0	0	0	0	0	0	0	1	996
190030	0	0	111	535	21	372	0	0	0	0
190050	0	0	3	61	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	136	679	1	3	0	0	1	3
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	1	46	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	1	60	0	0
995090	0	0	60	260	6	29	0	0	1	5
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	7	56	0	0	0	0	5	61
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	154	2	1361	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	169
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	1	26	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	13	1777
400080	0	0	0	0	2	24	0	0	1	9
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	3	1	6
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	5	2	45	5	38
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	8
190050	0	0	0	0	6	31	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	18	133	0	0	1	93
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	5	0	0	1	2
310080	0	0	0	0	1	4	1	32	0	0
390050	0	0	0	0	0	0	0	0	2	12
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	5	55	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	1	9	0	0	36	1857
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	68
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	30	345	0	0	15	86
9000000001	0	0	0	0	1	6	0	0	4	10
9800000001	1	75	0	0	34	88	296	309	11	104
9900000001	0	0	2	5	16	12	25	3	2769	474
Month Tot	1	75	319	1596	148	1345	331	2118	2874	6879
Y-T-D Tot	27	1016	1537	8654	911	12086	1109	12717	20091	31692
NC YTD Tot	2	110	2	464	26	2660	47	5347	75	10205

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - June 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	29	2604	0	0	0	0	0	0	0	0
301050	9	613	0	0	0	0	0	0	0	0
301070	1	22	0	0	0	0	0	0	0	0
8457100015	105	9216	13	700	4	253	0	0	0	0
100025	4	782	0	0	0	0	0	0	0	0
100035	46	7016	0	0	0	0	0	0	0	0
100045	3	564	3	187	0	0	0	0	0	0
200010	0	0	1	152	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	23	3760	0	0	0	0	0	0	0	0
110030	158	11743	4	235	0	0	0	0	0	0
110050	30	5079	0	0	0	0	0	0	0	0
110090	1	168	0	0	0	0	0	0	0	0
190030	0	0	18	211	24	304	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	3	780	0	0	0	0	0	0	0	0
190090	0	0	7	144	0	0	1	124	0	0
911060	1	204	0	0	0	0	0	0	0	0
911080	4	897	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	174	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	16	3794	2	148	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	10	478	0	0	0	0	0	0	1	20
290040	1	18	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	2	47	6	20
290070	2	143	0	0	0	0	1	5	0	0
290090	4	276	0	0	0	0	18	61	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	1	13
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	1	76
590030	5	90	0	0	0	0	114	886	0	0
610080	11	2083	0	0	2	82	0	0	0	0
690050	1	24	0	0	0	0	0	0	0	0
690070	1	35	0	0	0	0	0	0	1	138
690090	2	275	0	0	0	0	0	0	0	0
700020	6	292	0	0	0	0	0	0	0	0
700080	5	129	0	0	0	0	0	0	0	0
8460110080	2	248	0	0	0	0	0	0	1	594
190010	4	168	0	0	42	396	0	0	0	0
190050	1	47	0	0	0	0	1	36	0	0
210080	21	3030	0	0	0	0	0	0	1	523
290010	9	604	1	25	0	0	0	0	2	232
290030	1	73	0	0	0	0	0	0	0	0
290050	20	1250	0	0	0	0	0	0	2	7
310080	0	0	0	0	0	0	0	0	0	0
390050	9	141	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	4	149	0	0	0	0	0	0	1	119
900060	1	91	0	0	0	0	0	0	0	0
900080	73	1116	0	0	0	0	2	214	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	2	184	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	2	204	0	0	0	0	0	0	0	0
500090	12	777	0	0	0	0	4	30	6	55
9000000001	3	326	0	0	0	0	0	0	0	0
9800000001	26	1652	0	0	0	0	0	0	1	43
9900000001	3318	548	1470	131	0	0	0	0	114	114
Month Tot	3990	61866	1519	1933	72	1037	143	1404	138	1954
Y-T-D Tot	30150	419739	4149	10561	569	10784	1175	11599	1209	6723
NC YTD Tot	3344	362661	90	6125	105	5463	76	1412	10	2658

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - June 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	25	1546	2	20	0	0	0	0	0	0
301050	21	1338	2	50	2	48	0	0	0	0
301070	0	0	22	265	1	21	0	0	0	0
8457100015	1	67	5	417	56	2968	4	345	13	493
100025	0	0	0	0	2	1321	0	0	0	0
100035	0	0	0	0	0	0	4	1166	0	0
100045	0	0	0	0	0	0	1	264	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	1	311	0	0
300090	0	0	0	0	0	0	2	3688	0	0
8458110010	0	0	0	0	0	0	2	640	0	0
110030	0	0	16	860	4	229	1	33	9	239
110050	0	0	1	70	2	254	2	219	0	0
110090	0	0	0	0	0	0	1	1490	0	0
190030	0	0	60	431	39	410	3	3543	58	638
190050	1	247	17	110	0	0	0	0	1	239
190070	3	722	8	65	0	0	2	578	1	30
190090	1	151	18	48	10	147	4	505	28	110
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	3	133	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	1	746	0	0	1	16	0	0	0	0
995090	0	0	0	0	18	207	0	0	72	472
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	1	3	0	0
290050	0	0	3	14	0	0	0	0	2	17
290070	0	0	0	0	0	0	0	0	0	0
290090	5	89	1	12	0	0	0	0	37	119
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	25	1	43
310070	0	0	0	0	1	12	0	0	1	49
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	3	375	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	2	1550	0	0	0	0	4	13	1	38
510080	0	0	23	213	6	160	0	0	4	61
590030	1	91	76	418	2	91	0	0	110	435
610080	0	0	6	300	1	9	8	986	10	59
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	3	53	0	0	0	0	0	0
690090	1	21	31	242	2	11	0	0	49	138
700020	0	0	0	0	0	0	1	4	0	0
700080	0	0	0	0	1	3	6	112	0	0
8460110080	0	0	0	0	3	106	0	0	0	0
190010	0	0	10	105	0	0	12	32	0	0
190050	2	203	112	672	9	129	3	2	2	21
210080	2	514	0	0	2	158	12	320	0	0
290010	3	240	1	8	9	166	4	567	9	74
290030	2	186	0	0	0	0	3	531	20	130
290050	42	199	8	17	8	119	74	1038	6	90
310080	0	0	2	12	0	0	7	188	3	216
390050	4	30	1	4	5	45	13	134	0	0
400060	0	0	2	11	0	0	2	414	0	0
400080	0	0	0	0	9	101	6	696	12	52
900060	0	0	0	0	0	0	0	0	0	0
900080	3	338	2	26	8	39	33	1748	9	72
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	2	35	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	2	8	0	0	1	6	2	6
300060	0	0	0	0	1	1996	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	4	221	0	0
401040	0	0	0	0	0	0	0	0	1	25
401060	0	0	0	0	0	0	1	3	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	2	1276	0	0	0	0	3	999	3	218
500050	0	0	0	0	0	0	0	0	1	42
500090	1	43	12	60	10	45	18	592	28	319
9000000001	4	449	0	0	2	68	2	93	3	500
9800000001	3	58	0	0	50	273	17	294	7	36
9900000001	-8	10	66679	5373	317	124	373	238	7867	742
Month Tot	138	10115	67128	10018	581	9276	641	22448	8370	5723
Y-T-D Tot	958	41705	338572	65442	3147	53433	8864	122756	59029	34610
NC YTD Tot	231	14719	526	15799	423	35749	390	53066	246	10014

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

RELEASED: August 29, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	219	10698	40	884
8462100030	Headers and upsetters, including cold headers	87	7542	11	615
100050	Forging or die stamping machines, and hammers, n.e.c.	420	23112	74	2823
210080	Bending, folding, straight. or flat. mach., incl presses, NC	321	15741	37	2308
290030	Press brakes, non-NC	157	4330	36	1015
290040	Bending rolls, non-NC	64	1710	11	163
290050	Bending, folding, straight., or flat., n.e.c., non-NC	646	20528	97	4957
310080	Shearing machines, NC	40	1994	9	177
390050	Shearing machines, non-NC	296	7246	58	1449
410080	Punching or notching mach., incl. comb. punch & shear, NC	199	19882	46	3904
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	379	6624	52	1095
910060	Hydraulic presses, NC	12	3371	2	34
910090	Hydraulic presses, non-NC	936	8810	14	1621
990030	Presses, n.e.c., NC	45	3680	3	94
990035	Mechanical transfer presses, non-NC	10	9075	7	6906
990045	Mechanical presses, n.e.c., non-NC	57	1881	6	618
990060	Presses, n.e.c., non-NC	369	16616	42	5563
8463100080	Draw benches for bars, tubes, profiles, wire or the like	31	1900	5	285
200080	Thread rolling machines	45	2824	3	675
300080	Machines for working wire	814	37795	115	4675
900080	Metal forming machine tools, n.e.c.	224	13744	23	3615
9800000002	Used or rebuilt machine tools	648	9929	55	1162
9900000002	Machine tools valued at less than $2,500	8273	2986	1915	404
	Forming Total			2661	45042
	Y-T-D Forming Total	14292	232017		
	NC Y-T-D Forming Total	617	44668		
	Cutting and Forming Totals:				
	Monthly Total			89054	182829
	Y-T-D Total	485789	1075534		
	NC Y-T-D Total	6210	571119		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	280003	0	43683
2000000000	Parts for working rubber or plastics - heading 8477	0	165912	0	25932
2710003070	Quenching or cutting oils	0	228	0	60
8428900010	Industrial robots for lifting, handling, loading or unload	1249	24088	98	3283
8431390080	Parts industrial robots, handling and loading - heading 8428	0	44442	0	7458
8456101010	Laser, light or photon beam for working metal, NC	92	16861	12	2480
101020	Laser, light or photon beam for working metal, non-NC	43	2124	2	684
105000	Laser, light or photon beam for other materials	66	3615	9	724
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	6	82	4	61
205000	Ultrasonic processes for working other materials	5	187	0	0
8477103000	Injection molding mach., for manufacturing shoes	98	2059	6	44
106010	Injection molding mach., for rubber or oth. thermosetting	431	34175	58	3618
106050	Injection molding mach., for thermoplastics	1306	123832	173	16112
200010	Extruders for rubber or other thermosetting materials	106	7567	20	1568
200050	Extruders for processing thermoplastics	467	32279	40	5988
300000	Blow molding machines	212	19917	38	3766
400000	Vacuum-molding and other thermoforming machines	112	2201	38	211
510010	Machines for molding or retreading pneumatic tires	357	27932	55	2669
510090	Machines for molding or otherwise forming inner tubes	196	9161	81	1862
590000	Machines for molding or otherwise forming n.e.c.	527	35346	55	4023
800000	Machines for working rubber or plastics n.e.c.	5448	55546	1691	7036
8479899040	Industrial robots, n.e.c.	10377	38344	671	6240
908040	Industrial robot parts	0	15809	0	2278
8537100030	Numerical controls for controlling machine tools	7771	25909	886	3046
9024100000	Machines and appliances for testing metals	0	6194	0	722
9031100000	Machines for balancing mechanical parts	0	6829	0	2381
300000	Profile projectors	0	2979	0	552
9032810020	Industrial process control instr., hydraulic	79729	1118	16108	297
810060	Industrial process control instr., pneumatic	98731	2601	36588	659

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	29	671	0	0	3	32
8462100030	0	0	0	0	0	0	0	0	3	289
100050	0	0	0	0	15	411	0	0	3	53
210080	1	63	0	0	2	263	0	0	0	0
290030	7	304	0	0	16	519	0	0	0	0
290040	0	0	0	0	1	8	0	0	2	56
290050	0	0	0	0	18	929	15	976	1	3
310080	8	166	0	0	0	0	0	0	0	0
390050	6	113	0	0	7	232	1	80	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	1	20	3	118
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	3	871	0	0	2	32
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	1	1201	0	0	19	1366	0	0	2	32
8463100080	0	0	0	0	2	228	0	0	2	49
200080	0	0	0	0	0	0	0	0	1	653
300080	22	1091	0	0	2	199	2	60	12	1275
900080	0	0	0	0	4	59	2	9	4	51
9800000002	1	20	0	0	28	26	1	20	5	298
9900000002	0	0	0	0	20	10	4	8	103	7
Month Tot	46	2959	0	0	166	5790	26	1173	146	2948
Y-T-D Tot	344	14708	0	0	1035	30641	213	2143	862	23194
NC YTD Tot	35	3101	0	0	25	952	2	20	46	1001
C&F Month	47	3034	319	1596	314	7136	357	3291	3020	9827
C&F Y-T-D	371	15724	1537	8654	1946	42727	1322	14860	20953	54886
C&F NC YTD	37	3211	2	464	51	3611	49	5367	121	11206
Other Manufacturing Technology										
1000000000	0	142	0	37	0	3055	0	484	0	1375
2000000000	0	15	0	0	0	5789	0	2365	0	604
2710003070	0	0	0	0	0	46	0	0	0	0
8428900010	0	0	0	0	8	83	0	0	1	760
8431390080	0	24	0	8	0	1241	0	77	0	112
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	2	115	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	3	24
106010	0	0	0	0	1	17	0	0	8	90
106050	0	0	0	0	27	3173	0	0	7	301
200010	0	0	0	0	0	0	3	611	3	244
200050	0	0	0	0	7	2723	0	0	6	478
300000	0	0	0	0	16	59	2	2352	6	434
400000	0	0	0	0	1	5	0	0	1	108
510010	0	0	0	0	4	248	2	319	29	117
510090	0	0	60	13	3	316	0	0	2	2
590000	0	0	0	0	7	622	1	4	4	153
800000	0	0	0	0	68	257	21	448	10	242
899040	2	106	0	0	11	99	12	183	1	199
908040	0	0	0	0	0	36	0	8	0	18
8537100030	0	0	0	0	3	46	0	0	73	64
9024100000	0	0	0	0	0	227	0	0	0	8
9031100000	0	0	0	0	0	5	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
9032810020	24	72	0	0	0	0	0	0	0	0
810060	0	0	0	0	0	0	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

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U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	127	0	0	0	0	0	0	0	0
8462100030	8	326	0	0	0	0	0	0	0	0
100050	40	2167	0	0	0	0	0	0	0	0
210080	27	1531	0	0	0	0	0	0	0	0
290030	1	12	0	0	0	0	0	0	0	0
290040	1	62	0	0	0	0	0	0	0	0
290050	6	271	0	0	0	0	1	3	15	462
310080	0	0	0	0	0	0	0	0	0	0
390050	10	329	0	0	0	0	0	0	4	75
410080	9	1241	0	0	0	0	0	0	0	0
490050	15	497	0	0	0	0	16	142	3	68
910060	0	0	0	0	0	0	0	0	0	0
910090	2	89	0	0	0	0	0	0	0	0
990030	1	64	0	0	0	0	0	0	0	0
990035	1	6767	0	0	0	0	0	0	0	0
990045	3	170	0	0	0	0	0	0	0	0
990060	4	359	0	0	0	0	0	0	0	0
8463100080	1	7	0	0	0	0	0	0	0	0
200080	1	7	0	0	0	0	1	16	0	0
300080	63	1404	0	0	0	0	0	0	1	5
900080	9	811	0	0	0	0	1	9	0	0
9800000002	6	567	0	0	0	0	1	3	5	109
9900000002	398	40	0	0	36	4	32	38	6	8
Month Tot	609	16850	0	0	36	4	52	210	34	727
Y-T-D Tot	2451	87646	11	124	43	57	287	2500	416	4304
NC YTD Tot	281	21279	0	0	0	0	0	0	3	439
C&F Month	4599	78716	1519	1933	108	1040	195	1614	172	2680
C&F Y-T-D	32601	507385	4160	10684	612	10841	1462	14099	1625	11027
C&F NC YTD	3625	383940	90	6125	105	5463	76	1412	13	3097

Other Manufacturing Technology

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	13295	0	186	0	305	0	205	0	1234
2000000000	0	4211	0	117	0	226	0	88	0	27
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	66	1065	0	0	0	0	0	0	11	554
8431390080	0	990	0	0	0	0	0	0	0	78
8456101010	11	2432	0	0	0	0	0	0	0	0
101020	1	435	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	1	51	0	0	0	0	0	0	3	10
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	22	1736	0	0	0	0	0	0	0	0
106050	73	7491	9	332	1	28	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	2	941	0	0	0	0	0	0	0	0
300000	2	150	0	0	0	0	0	0	0	0
400000	1	48	0	0	0	0	0	0	0	0
510010	16	1012	0	0	0	0	0	0	0	0
510090	4	1482	0	0	0	0	0	0	0	0
590000	32	2000	0	0	0	0	0	0	0	0
800000	48	3009	1400	177	0	0	0	0	0	0
899040	610	3072	0	0	0	0	0	0	19	875
908040	0	1446	0	0	0	0	0	0	0	107
8537100030	798	2878	0	0	0	0	0	0	0	0
9024100000	0	63	0	0	0	0	0	0	0	0
9031100000	0	2022	0	0	0	0	0	0	0	0
300000	0	222	0	0	0	0	0	0	0	0
9032810020	0	0	3000	10	0	0	0	0	0	0
810060	25	9	26000	41	0	0	0	0	942	261

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

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U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	5	54
8462100030	0	0	0	0	0	0	0	0	0	0
100050	6	122	0	0	2	26	1	3	7	40
210080	0	0	0	0	0	0	6	389	1	61
290030	0	0	0	0	0	0	0	0	12	180
290040	0	0	6	28	1	11	0	0	0	0
290050	2	310	7	70	5	337	18	1531	9	65
310080	0	0	0	0	0	0	0	0	1	12
390050	0	0	0	0	19	484	0	0	11	136
410080	2	484	0	0	0	0	34	1939	1	239
490050	0	0	2	26	1	167	11	57	0	0
910060	0	0	0	0	0	0	0	0	2	34
910090	1	66	0	0	2	221	3	148	1	194
990030	0	0	0	0	0	0	0	0	2	29
990035	0	0	0	0	0	0	6	139	0	0
990045	1	389	0	0	0	0	0	0	2	59
990060	1	8	11	490	0	0	3	2082	1	26
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	35	3	374	8	183	1	49	0	0
900080	0	0	0	0	0	0	2	2663	1	12
9800000002	1	15	0	0	2	20	4	68	1	16
9900000002	230	17	381	141	2	3	36	23	667	108
Month Tot	245	1446	410	1128	42	1452	125	9091	724	1264
Y-T-D Tot	714	12268	3755	5704	525	7340	1153	33523	2483	7865
NC YTD Tot	18	2609	5	807	5	142	163	11232	34	3086
C&F Month	383	11561	67538	11146	623	10728	766	31538	9094	6987
C&F Y-T-D	1672	53974	342327	71146	3672	60773	10017	156279	61512	42475
C&F NC YTD	249	17328	531	16606	428	35891	553	64298	280	13100

Other Manufacturing Technology

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	2917	0	1539	0	2622	0	13422	0	2864
2000000000	0	564	0	869	0	542	0	8461	0	2054
2710003070	0	0	0	0	0	0	0	14	0	0
8428900010	0	0	0	0	1	6	2	70	9	745
8431390080	0	1734	0	172	0	616	0	1640	0	764
8456101010	1	48	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	1	249	0	0
105000	3	606	0	0	0	0	0	0	4	2
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	1	17	2	2
106010	2	334	1	163	0	0	19	1243	5	34
106050	3	607	2	40	1	9	42	2739	8	1392
200010	4	93	4	82	0	0	5	499	1	38
200050	0	0	3	71	7	50	15	1724	0	0
300000	0	0	5	475	0	0	7	296	0	0
400000	0	0	0	0	0	0	35	50	0	0
510010	0	0	0	0	2	91	0	0	2	882
510090	0	0	0	0	3	28	9	21	0	0
590000	0	0	0	0	2	26	5	412	4	807
800000	2	8	9	369	9	119	84	2210	40	197
899040	2	227	0	0	2	31	8	1374	4	74
908040	0	24	0	0	0	213	0	310	0	117
8537100030	4	19	0	0	0	0	8	38	0	0
9024100000	0	65	0	8	0	284	0	45	0	22
9031100000	0	0	0	0	0	0	0	9	0	344
300000	0	0	0	0	0	198	0	4	0	128
9032810020	303	19	0	0	0	0	0	0	12781	196
810060	0	0	9270	23	0	0	6	238	345	87

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	58	431	0	0	58	431
Bulgaria	0	0	0	0	0	0
Czechoslovakia	6	109	0	0	6	109
Denmark	31	600	65	117	96	717
East Germany	13	222	0	0	13	222
Finland	37	119	2	251	39	370
Hungary	0	0	0	0	0	0
Ireland	1	52	0	0	1	52
Luxembourg	0	0	0	0	0	0
Netherlands	4	229	6	101	10	330
Norway	0	0	1	61	1	61
Poland	37	702	0	0	37	702
Portugal	26	48	13	178	39	227
Romania	0	0	0	0	0	0
USSR	1	7	0	0	1	7
Yugoslavia	43	178	0	0	43	178
Oth Europe	12	453	0	0	12	453
TOTAL	5116	57420	803	20713	5919	78133
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	2	115	36	150	38	265
Oth N & C Am.	0	0	0	0	0	0
TOTAL	150	1460	202	5941	352	7401
SOUTH AMERICA						
Argentina	12	52	0	0	12	52
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	331	1648	0	0	331	1648
OCEANIA						
Australia	4	221	0	0	4	221
New Zealand	0	0	1	194	1	194
Oth Oceania	0	0	0	0	0	0
TOTAL	4	221	1	194	5	416

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	8052	1914	591	110	8643	2025
Hong Kong	1	2	0	0	1	2
India	12	106	1	1	13	107
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	14	145	8	100	22	245
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	80788	77020	1655	18194	82443	95214
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	4	17	0	0	4	17
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	4	17	0	0	4	17

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
- Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
- Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
- n.e.c. - Not elsewhere classified.
- * Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - June 90

RELEASED: August 29, 1990

		TOTAL YTD	
		UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	495	31439
301050	Electro-discharge machines, n.e.c., NC	123	7235
301070	Electro-discharge machines, n.e.c., non-NC	198	3992
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1181	92975
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	68	13934
100035	Horiz. mach. ctrs., ATC	361	78956
100045	Mach. ctrs., n.e.c.	115	15821
200010	Unit construction mach. (single station transfer), NC	14	1447
200090	Unit construction mach. (single station transfer), non-NC	1	361
300010	Multi-station transfer machines, NC	29	8289
300090	Multi-station transfer machines, non-NC	50	17981
8458110010	Horiz. lathes, multiple spindle, NC	145	24407
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1226	86748
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	289	41551
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	31	9009
190030	Horiz. engine or toolroom lathes, non-NC	2113	23395
190050	Automatic bar and/or chucking mach., single spindle, non-NC	536	10673
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	82	6120
190090	Horiz. lathes, n.e.c., non-NC	959	8950
911060	Vertical turret lathes, multiple spindle, NC	19	3303
911080	Vertical turret lathes, n.e.c., NC	21	5228
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	30	3494
991050	Vertical turret lathes, non-NC	64	2542
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	559	12043
8459100000	Way-type unit head machines	0	0
210080	Other drilling machines, NC	153	9881
290040	Drilling machines, multiple spindle, non-NC	56	1339
290050	Drilling machines, radial, non-NC	214	1658
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	45	568
290090	Drilling machines, n.e.c., non-NC	244	6594
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	439
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	32	3254
310070	Boring-milling mach., n.e.c., NC	20	829
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	18	1535
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	49	1584
400040	Boring machines, vertical, NC	0	0
400050	Boring machines, vertical, non-NC	34	1045
400070	Boring machines, n.e.c., NC	26	3116
400080	Boring machines, n.e.c., non-NC	99	3840
510080	Milling machines, knee type, NC	345	4961
590030	Milling machines, knee type, non-NC	1930	12977
610080	Milling machines, excl. knee type, n.e.c., NC	171	10854
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344
690070	Milling machines, bed type, non-NC	39	2042
690090	Milling machines, n.e.c., non-NC	368	9248
700020	Threading or tapping machines, n.e.c., NC	85	4385
700080	Threading or tapping machines, n.e.c., non-NC	96	2467
8460110080	Flat surface grinding mach., NC	79	6794
190010	Flat surface grinding mach., recip.-table type, non-NC	486	6321
190050	Flat surface grinding mach., n.e.c., non-NC	1068	10809
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	228	39002
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	272	8150
290030	Grinding mach., internal cylindrical, non-NC	63	4699
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	671	19438
310080	Sharpening machines (tool & cutter grinding), NC	122	2546
390050	Sharpening machines (tool & cutter grinding), non-NC	429	5128
400060	Honing or lapping machines, NC	22	2249
400080	Honing or lapping machines, non-NC	125	4139
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	25	1344
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	735	20326
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	3	40
200010	Shaping or slotting machines, NC	68	2347
200090	Shaping or slotting machines, non-NC	121	1688
300060	Broaching machines, NC	3	7114
300080	Broaching machines, non-NC	58	1621
401020	Gear cutting for bevel gears	0	0
401030	Gear hobbers	79	5206
401040	Gear shapers	12	3204
401060	Gear cutting machines, n.e.c.	65	423
405050	Gear grinding or finishing for bevel gears	55	626
405070	Gear grinding or finishing machines, n.e.c.	47	11696
500050	Sawing or cutting-off machines, NC	57	3221
500090	Sawing or cutting-off machines, non-NC	1008	14533
9000000001	Metal cutting machine tools, n.e.c.	203	5618
9800000001	Used or rebuilt machine tools	1862	15080
9900000001	Machine tools valued at less than $2,500	450762	47302
	Y-T-D Cutting Total	471497	843517
	NC Y-T-D Cutting Total	5593	526451

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - June 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	3	152	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	12	156	0	0
8457100015	0	0	0	0	0	0	4	359	0	0
100025	0	0	0	0	0	0	5	513	0	0
100035	0	0	0	0	0	0	1	209	0	0
100045	0	0	1	29	12	1140	1	260	8	1204
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	78	0	0	13	1976
300090	0	0	0	0	7	3490	0	0	5	2151
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	3	31	0	0
110050	0	0	0	0	0	0	18	2190	1	107
110090	0	0	0	0	0	0	0	0	4	2525
190030	0	0	448	2829	45	724	4	120	0	0
190050	0	0	28	233	1	13	0	0	0	0
190070	0	0	0	0	0	0	1	35	0	0
190090	0	0	638	3475	9	29	3	120	1	3
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	1	46	2	1260	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	2	0	0	2	370
991050	0	0	0	0	0	0	7	364	0	0
995090	0	0	161	742	37	124	16	648	3	22
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	435	4	468	1	146	0	0
290040	0	0	0	0	0	0	1	4	4	23
290050	0	0	44	412	0	0	0	0	10	140
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	12	380	6	1764	7	2254
310010	0	0	0	0	0	0	1	142	0	0
310040	0	0	0	0	2	37	0	0	2	397
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	1	26	2	777	0	0
390050	0	0	0	0	1	15	0	0	23	418
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	15	187
400070	0	0	0	0	0	0	0	0	23	1916
400080	0	0	0	0	33	335	0	0	41	383
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	3	1	6
610080	0	0	0	0	1	827	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	99
690090	0	0	0	0	2	10	11	669	45	4017
700020	0	0	0	0	0	0	0	0	0	0
700080	6	45	0	0	4	47	0	0	3	48
8460110080	2	110	0	0	2	55	0	0	10	1255
190010	0	0	0	0	0	0	0	0	21	424
190050	0	0	0	0	27	117	1	8	3	50
210080	0	0	0	0	0	0	1	39	2	146
290010	0	0	0	0	99	681	0	0	2	127
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	14	63	0	0	23	449
310080	0	0	0	0	1	4	7	45	0	0
390050	0	0	0	0	15	59	2	48	5	34
400060	0	0	0	0	0	0	0	0	1	150
400080	0	0	0	0	5	55	0	0	1	25
900060	0	0	0	0	1	4	0	0	7	133
900080	1	3	0	0	26	416	29	116	131	5415
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	3	8	0	0	32	90	0	0	1	155
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	110
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	2	211
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	1	172	2	7	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	2	76	1	129	1	76
500050	0	0	0	0	0	0	0	0	1	7
500090	5	20	72	216	144	1602	5	124	168	959
9000000001	0	0	0	0	9	130	73	1373	18	98
9800000001	6	825	0	0	90	718	298	385	21	209
9900000001	4	6	143	111	268	218	589	527	19459	3413
Y-T-D Tot	27	1016	1537	8654	911	12086	1109	12717	20091	31692
MC YTD Tot	2	110	2	464	26	2660	47	5347	75	10205

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - June 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	320	24314	0	0	0	0	0	0	0	0
301050	66	4399	0	0	0	0	1	18	1	2
301070	9	577	0	0	0	0	0	0	0	0
8457100015	677	63561	36	2095	92	4882	2	156	0	0
100025	47	8668	0	0	0	0	0	0	0	0
100035	274	65292	0	0	0	0	0	0	0	0
100045	10	2165	3	187	1	83	0	0	0	0
200010	0	0	13	1366	0	0	0	0	0	0
200090	1	361	0	0	0	0	0	0	0	0
300010	9	5250	3	179	0	0	0	0	0	0
300090	3	1370	0	0	0	0	0	0	0	0
8458110010	124	19588	0	0	0	0	0	0	0	0
110030	1034	78400	31	1839	0	0	0	0	0	0
110050	255	36960	0	0	0	0	0	0	0	0
110090	14	2786	0	0	0	0	3	447	0	0
190030	21	336	68	775	167	2047	9	435	0	0
190050	27	1806	0	0	0	0	0	0	0	0
190070	3	780	0	0	0	0	0	0	0	0
190090	14	1539	12	295	0	0	1	124	0	0
911060	8	1739	1	159	0	0	0	0	1	201
911080	15	3789	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	9	1645	2	204	0	0	0	0	0	0
991050	1	170	0	0	0	0	0	0	0	0
995090	18	3979	43	2602	0	0	7	72	2	18
8459100000	0	0	0	0	0	0	0	0	0	0
210080	125	7926	1	97	0	0	0	0	2	28
290040	14	454	0	0	0	0	0	0	0	0
290050	4	86	0	0	0	0	8	142	8	64
290070	8	271	0	0	0	0	15	67	10	38
290090	27	922	0	0	0	0	102	521	7	39
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	247	0	0
310070	6	201	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	2	180	2	17
390050	0	0	0	0	0	0	4	544	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	2	473	0	0	0	0	0	0	0	0
400070	3	1201	0	0	0	0	0	0	0	0
400080	3	1126	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	68	532	1	76
590030	32	632	0	0	0	0	880	6595	0	0
610080	27	5245	0	0	12	498	0	0	0	0
690050	3	62	0	0	0	0	0	0	0	0
690070	12	361	0	0	0	0	0	0	3	452
690090	17	1009	0	0	0	0	18	85	0	0
700020	84	4381	0	0	0	0	0	0	0	0
700080	51	1599	0	0	0	0	0	0	0	0
8460110080	14	1036	0	0	0	0	1	12	2	973
190010	85	1715	0	0	207	2704	0	0	0	0
190050	12	675	1	22	14	334	4	428	2	6
210080	119	19575	0	0	0	0	0	0	3	1379
290010	28	1445	1	25	0	0	0	0	4	400
290030	4	237	0	0	0	0	0	0	1	333
290050	115	10163	0	0	0	0	1	148	3	11
310080	6	312	0	0	0	0	0	0	0	0
390050	60	1079	0	0	0	0	0	0	0	0
400060	7	580	0	0	0	0	0	0	0	0
400080	14	962	0	0	0	0	0	0	24	1083
900060	11	890	0	0	0	0	0	0	0	0
900080	184	5005	13	109	0	0	4	443	2	14
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	66	2061	0	0	0	0	0	0	0	0
200090	5	135	0	0	37	230	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	5	351	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	12	1662	0	0	0	0	0	0	0	0
401040	2	345	0	0	0	0	0	0	0	0
401060	1	175	0	0	0	0	0	0	0	0
405050	54	159	0	0	0	0	0	0	0	0
405070	6	1369	0	0	0	0	0	0	0	0
500050	9	501	0	0	0	0	0	0	0	0
500090	101	4220	0	0	0	0	12	92	10	152
9000000001	17	788	2	21	0	0	2	14	4	157
9800000001	410	4722	0	0	0	0	9	288	10	154
9900000001	25426	4152	3919	586	39	6	21	9	1107	1129
Y-T-D Tot	30150	419739	4149	10561	569	10784	1175	11599	1209	6723
NC YTD Tot	3344	362661	90	6125	105	5463	76	1412	10	2658

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - June 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	126	6514	44	384	0	0	0	0	2	74
301050	35	1960	8	177	11	466	1	214	0	0
301070	27	1053	85	1035	5	35	2	81	58	1054
8457100015	2	650	43	3220	256	14057	16	1569	53	2425
100025	0	0	13	1137	2	1321	1	2294	0	0
100035	0	0	13	1700	10	270	62	9463	1	2022
100045	3	447	14	912	4	181	40	8657	18	555
200010	0	0	0	0	0	0	1	81	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	89	2	717	0	0
300090	13	2094	0	0	0	0	22	8875	0	0
8458110010	0	0	0	0	5	645	16	4174	0	0
110030	5	390	74	3926	15	720	1	33	63	1409
110050	2	610	4	255	4	592	3	309	2	528
110090	0	0	0	0	1	104	9	3147	0	0
190030	5	14	458	3562	254	3224	3	3543	631	5787
190050	14	1711	152	1264	9	588	304	4818	1	239
190070	18	2991	45	305	0	0	4	1666	11	343
190090	7	762	36	96	70	1154	5	509	163	844
911060	6	463	0	0	0	0	1	622	2	120
911080	0	0	3	133	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	3	177	0	0	1	30	3	489	9	579
991050	8	1742	10	36	9	25	0	0	29	205
995090	7	878	2	151	53	1118	20	403	190	1286
8459100000	0	0	0	0	0	0	0	0	0	0
210080	3	117	0	0	1	170	14	489	1	5
290040	6	627	25	71	0	0	2	6	4	153
290050	0	0	79	452	0	0	2	16	59	347
290070	0	0	6	49	0	0	5	137	1	5
290090	5	89	1	12	0	0	10	279	67	335
310010	0	0	2	297	0	0	0	0	0	0
310040	0	0	2	3	2	472	4	1419	19	679
310070	2	61	2	12	1	12	6	384	3	159
390040	0	0	1	19	0	0	4	415	6	101
390050	0	0	15	106	0	0	3	375	3	126
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	12	53	2	10	1	257	2	64
400070	0	0	0	0	0	0	0	0	0	0
400080	3	1560	1	7	3	71	13	315	2	43
510080	12	239	172	1488	66	2188	1	122	25	315
590030	1	91	642	3490	84	562	5	309	284	1291
610080	5	86	66	1542	12	694	17	1764	31	198
690050	0	0	5	24	0	0	1	4	24	254
690070	0	0	18	405	0	0	2	684	3	41
690090	4	217	121	731	8	609	14	682	128	1219
700020	0	0	0	0	0	0	1	4	0	0
700080	1	6	0	0	4	81	27	641	0	0
8460110080	1	173	25	278	14	2169	6	709	2	24
190010	0	0	90	498	0	0	82	964	1	16
190050	19	721	838	5744	44	795	39	1401	64	509
210080	18	2778	0	0	7	3796	77	11149	1	140
290010	31	2674	8	153	32	801	11	1341	56	502
290030	14	1402	0	0	3	68	13	2458	28	201
290050	53	1084	73	314	52	763	310	5845	27	596
310080	7	50	31	185	3	446	59	1064	8	441
390050	51	568	88	413	96	658	98	1932	14	338
400060	0	0	2	11	3	147	9	1361	0	0
400080	0	0	0	0	34	459	21	1292	26	262
900060	1	4	0	0	0	0	1	82	4	232
900080	21	1101	39	261	51	236	146	6087	88	1119
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	2	35	1	5
200010	0	0	0	0	0	0	2	286	0	0
200090	27	285	2	8	3	11	9	759	2	6
300060	0	0	0	0	3	7114	0	0	0	0
300080	0	0	0	0	36	316	15	845	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	2	15	61	3277	2	41
401040	0	0	0	0	0	0	9	2834	1	25
401060	0	0	0	0	14	35	47	34	0	0
405050	1	467	0	0	0	0	0	0	0	0
405070	5	2701	0	0	5	685	15	6256	12	404
500050	0	0	8	139	0	0	37	2465	2	109
500090	7	148	78	369	60	303	169	5040	177	1288
9000000001	10	1135	0	0	9	261	17	922	42	719
9800000001	82	675	535	229	201	3904	140	2566	60	405
9900000001	287	190	334581	29785	1582	963	6821	1784	56516	4422
Y-T-D Tot	958	41705	338572	65442	3147	53433	8864	122756	59029	34610
NC YTD Tot	231	14719	526	15799	423	35749	390	53066	246	10014

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - June 90

RELEASED: August 29, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000
8454300010	Die casting machines	219	10698
8462100030	Headers and upsetters, including cold headers	87	7542
100050	Forging or die stamping machines, and hammers, n.e.c.	420	23112
210080	Bending, folding, straight. or flat. mach., incl presses, NC	321	15741
290030	Press brakes, non-NC	157	4330
290040	Bending rolls, non-NC	64	1710
290050	Bending, folding, straight., or flat., n.e.c., non-NC	646	20528
310080	Shearing machines, NC	40	1994
390050	Shearing machines, non-NC	296	7246
410080	Punching or notching mach., incl. comb. punch & shear, NC	199	19882
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	379	6624
910060	Hydraulic presses, NC	12	3371
910090	Hydraulic presses, non-NC	936	8810
990030	Presses, n.e.c., NC	45	3680
990035	Mechanical transfer presses, non-NC	10	9075
990045	Mechanical presses, n.e.c., non-NC	57	1881
990060	Presses, n.e.c., non-NC	369	16616
8463100080	Draw benches for bars, tubes, profiles, wire or the like	31	1900
200080	Thread rolling machines	45	2824
300080	Machines for working wire	814	37795
900080	Metal forming machine tools, n.e.c.	224	13744
9800000002	Used or rebuilt machine tools	648	9929
9900000002	Machine tools valued at less than $2,500	8273	2986
	Y-T-D Forming Total	14292	232017
	NC Y-T-D Forming Total	617	44668
	Cutting and Forming Totals:		
	Y-T-D Total	485789	1075534
	NC Y-T-D Total	6210	571119

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000
1000000000	Machine tool parts and accessories	0	280003
2000000000	Parts for working rubber or plastics - heading 8477	0	165912
2710003070	Quenching or cutting oils	0	228
8428900010	Industrial robots for lifting, handling, loading or unload	1240	24088
8431390080	Parts industrial robots, handling and loading - heading 8428	0	44442
8456101010	Laser, light or photon beam for working metal, NC	92	16861
101020	Laser, light or photon beam for working metal, non-NC	43	2124
105000	Laser, light or photon beam for other materials	66	3615
201010	Ultrasonic processes for working metal, NC	0	0
201050	Ultrasonic processes for working metal, non-NC	6	82
205000	Ultrasonic processes for working other materials	5	187
8477103000	Injection molding mach., for manufacturing shoes	98	2059
106010	Injection molding mach., for rubber or oth. thermosetting	431	34175
106050	Injection molding mach., for thermoplastics	1306	123832
200010	Extruders for rubber or other thermosetting materials	106	7567
200050	Extruders for processing thermoplastics	467	32279
300000	Blow molding machines	212	19917
400000	Vacuum-molding and other thermoforming machines	112	2201
510010	Machines for molding or retreading pneumatic tires	357	27932
510090	Machines for molding or otherwise forming inner tubes	196	9161
590000	Machines for molding or otherwise forming n.e.c.	527	35346
800000	Machines for working rubber or plastics n.e.c.	5448	55546
8479899040	Industrial robots, n.e.c.	10377	38344
908040	Industrial robot parts	0	15809
8537100030	Numerical controls for controlling machine tools	7771	25909
9024100000	Machines and appliances for testing metals	0	6194
9031100000	Machines for balancing mechanical parts	0	6829
300000	Profile projectors	0	2979
9032810020	Industrial process control instr., hydraulic	79729	1118
810060	Industrial process control instr., pneumatic	98731	2601

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - June 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	15	7	0	0	79	3337	0	0	17	497
8462100030	1	1273	0	0	0	0	1	12	15	1944
100050	0	0	0	0	40	1584	94	84	18	838
210080	3	988	0	0	23	933	2	20	16	724
290030	28	858	0	0	103	3027	0	0	0	0
290040	0	0	0	0	10	98	1	367	16	299
290050	4	22	0	0	195	4969	55	1108	43	564
310080	28	855	0	0	1	9	0	0	0	0
390050	42	811	0	0	44	1117	2	95	10	465
410080	1	1068	0	0	1	10	0	0	1	54
490050	0	0	0	0	18	1002	1	20	39	546
910060	3	190	0	0	0	0	0	0	0	0
910090	0	0	0	0	45	2936	2	2	32	144
990030	0	0	0	0	0	0	0	0	29	222
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	2	13	0	0	1	10
990060	2	1347	0	0	136	6431	13	50	46	665
8463100080	6	269	0	0	9	984	0	0	7	94
200080	0	0	0	0	1	11	0	0	2	700
300080	121	6119	0	0	22	1954	5	137	98	10296
900080	0	0	0	0	23	992	5	131	22	1399
9800000002	40	894	0	0	186	1145	2	71	20	3627
9900000002	50	6	0	0	97	86	30	47	430	105
Y-T-D Tot	344	14708	0	0	1035	30641	213	2143	862	23194
NC YTD Tot	35	3101	0	0	25	952	2	20	46	1001
C&F Y-T-D	371	15724	1537	8654	1946	42727	1322	14860	20953	54886
C&F NC YTD	37	3211	2	464	51	3611	49	5367	121	11206

Other Manufacturing Technology

1000000000	0	3525	0	225	0	32496	0	4943	0	10981
2000000000	0	2535	0	18	0	30982	0	14825	0	5228
2710003070	0	0	0	0	0	152	0	0	0	0
8428900010	2	108	0	0	111	2229	1	49	3	2121
8431390080	0	214	0	132	0	6506	0	367	0	959
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	114	0	0	0	0
105000	0	0	0	0	6	267	0	0	1	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	1	8	0	0
8477103000	0	0	0	0	0	0	1	114	36	1650
106010	0	0	0	0	23	2541	28	3352	15	729
106050	1	36	0	0	230	24565	5	923	51	7774
200010	3	16	0	0	10	88	3	611	10	335
200050	2	170	0	0	55	4059	1	70	33	4000
300000	0	0	0	0	27	732	5	3751	11	1326
400000	0	0	0	0	5	112	0	0	8	220
510010	3	25	0	0	59	5367	30	444	55	1317
510090	0	0	60	13	9	999	2	16	17	24
590000	0	0	0	0	45	3416	2	138	36	1134
800000	91	763	0	0	227	2852	333	3935	46	1150
8479899040	11	258	0	0	630	948	12	183	5	391
908040	0	110	0	0	0	236	0	81	0	258
8537100030	0	0	0	0	34	70	1	2	204	300
9024100000	0	37	0	0	0	522	0	41	0	209
9031100000	0	0	0	0	0	25	0	53	0	164
300000	0	0	0	0	0	7	0	0	0	9
9032810020	24	72	0	0	16	85	0	0	42	1
810060	2	1	0	0	0	0	0	0	1826	176

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - June 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	56	5185	0	0	0	0	0	0	0	0
8462100030	37	3354	0	0	0	0	0	0	0	0
100050	126	12965	3	88	5	9	1	6	8	292
210080	200	9199	0	0	0	0	0	0	2	195
290030	8	187	0	0	2	44	0	0	0	0
290040	1	62	0	0	0	0	0	0	9	528
290050	61	4724	0	0	0	0	2	7	66	1556
310080	6	902	0	0	0	0	0	0	0	0
390050	64	2743	1	30	0	0	0	0	10	206
410080	63	7545	0	0	0	0	0	0	0	0
490050	27	855	0	0	0	0	104	1013	8	158
910060	1	616	0	0	0	0	0	0	1	243
910090	167	3185	0	0	0	0	1	14	1	150
990030	11	3017	0	0	0	0	0	0	0	0
990035	3	8836	0	0	0	0	0	0	0	0
990045	28	1189	0	0	0	0	0	0	0	0
990060	46	2278	0	0	0	0	5	15	11	228
8463100080	5	211	0	0	0	0	0	0	0	0
200080	28	1530	0	0	0	0	11	519	0	0
300080	338	12042	0	0	0	0	0	0	5	21
900080	85	3995	0	0	0	0	8	783	4	396
9800000002	43	2630	0	0	0	0	1	3	10	191
9900000002	1047	396	7	5	36	4	154	139	281	137
Y-T-D Tot	2451	87646	11	124	43	57	287	2500	416	4304
NC YTD Tot	281	21279	0	0	0	0	0	0	3	439
C&F Y-T-D	32601	507385	4160	10684	612	10841	1462	14099	1625	11027
C&F NC YTD	3625	383940	90	6125	105	5463	76	1412	13	3097
Other Manufacturing Technology										
1000000000	0	82691	0	1000	0	3434	0	1432	0	7865
2000000000	0	32792	0	369	0	565	0	456	0	546
2710003070	0	37	0	0	0	0	0	0	0	0
8428900010	431	10139	0	0	0	0	0	0	58	2780
8431390080	0	5887	0	270	0	0	0	61	0	723
8456101010	79	15717	0	0	0	0	0	0	0	0
101020	1	435	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	2	56	0	0	0	0	0	0	3	10
205000	3	141	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	213	18557	4	184	4	243	0	0	0	0
106050	394	48970	28	976	16	274	0	0	1	15
200010	26	4044	1	8	0	0	1	124	0	0
200050	39	4836	1	11	0	0	0	0	25	1305
300000	54	4741	42	234	0	0	2	281	0	0
400000	3	285	0	0	0	0	0	0	0	0
510010	184	18021	0	0	0	0	0	0	0	0
510090	21	3888	4	79	0	0	0	0	2	4
590000	118	25829	2	38	0	0	0	0	2	140
800000	1466	22546	1900	238	2	600	12	19	18	59
8479899040	9393	25166	61	55	0	0	5	208	69	3374
908040	0	7440	0	0	0	11	0	0	0	492
8537100030	7254	25150	0	0	0	0	0	0	0	0
9024100000	0	1758	0	0	0	0	0	0	0	162
9031100000	0	5154	0	7	0	0	0	10	0	20
300000	0	1162	0	0	0	0	0	0	0	0
9032810020	135	31	8500	34	0	0	0	0	1	8
810060	1123	46	28500	49	0	0	0	0	4947	999

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - June 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	355	1	182	3	93	6	888	40	154
8462100030	0	0	0	0	0	0	33	959	0	0
100050	15	3185	5	72	35	1466	26	1423	44	1100
210080	5	138	3	82	4	60	46	2754	17	648
290030	0	0	4	32	0	0	0	0	12	180
290040	1	5	14	104	3	62	0	0	9	185
290050	14	958	28	237	21	1047	64	4489	93	847
310080	3	214	0	0	0	0	0	0	2	14
390050	1	181	3	15	66	738	25	471	28	375
410080	8	2108	1	76	1	83	112	6577	11	2361
490050	13	717	15	70	71	1138	70	802	13	301
910060	0	0	1	650	0	0	4	1638	2	34
910090	12	618	587	629	3	252	41	546	45	335
990030	2	149	0	0	0	0	1	263	2	29
990035	1	100	0	0	0	0	6	139	0	0
990045	11	434	0	0	1	7	12	170	2	59
990060	1	8	51	1740	20	591	20	3026	18	237
8463100080	1	3	0	0	0	0	3	339	0	0
200080	0	0	2	43	0	0	0	0	1	19
300080	17	1445	19	545	52	1053	131	4087	6	97
900080	19	1511	6	152	20	149	26	4155	6	79
9800000002	115	67	15	16	169	524	39	636	8	124
9900000002	473	74	3000	1060	56	78	488	161	2124	688
Y-T-D Tot	714	12268	3755	5704	525	7340	1153	33523	2483	7865
NC YTD Tot	18	2609	5	807	5	142	163	11232	34	3086
C&F Y-T-D	1672	53974	342327	71146	3672	60773	10017	156279	61512	42475
C&F NC YTD	249	17328	531	16606	428	35891	553	64298	280	13100

Other Manufacturing Technology

1000000000	0	17225	0	8387	0	19870	0	67935	0	17995
2000000000	0	4258	0	7873	0	4215	0	50581	0	10670
2710003070	0	1	0	0	0	0	0	37	0	0
8428900010	8	448	0	0	56	1586	542	1417	37	3211
8431390080	0	9070	0	864	0	5305	0	7051	0	7034
8456101010	3	105	0	0	6	723	1	104	3	213
101020	0	0	0	0	3	380	37	1060	1	135
105000	9	1268	0	0	28	1028	2	22	20	1025
201010	0	0	0	0	0	0	0	0	0	0
201050	1	17	0	0	0	0	0	0	0	0
205000	0	0	0	0	1	38	0	0	0	0
8477103000	1	149	5	32	3	4	50	108	2	2
106010	9	1806	45	2212	0	0	46	2284	44	2267
106050	38	3744	46	1874	17	445	321	24586	158	9650
200010	8	350	9	170	1	29	24	1555	10	236
200050	7	2164	36	1212	59	816	199	13079	10	557
300000	0	0	8	541	0	0	60	7480	3	832
400000	0	0	1	15	0	0	94	1485	1	84
510010	0	0	0	0	8	171	8	155	10	2431
510090	2	176	2	4	19	765	49	2231	9	962
590000	143	418	5	197	47	509	50	1760	77	1768
800000	372	3041	46	1151	138	1285	553	15545	244	2363
8479899040	6	754	0	0	22	538	50	4443	113	2027
908040	0	590	0	136	0	1428	0	4472	0	554
8537100030	5	45	0	0	13	67	200	205	60	70
9024100000	0	211	0	12	0	1562	0	803	0	876
9031100000	0	54	0	0	0	46	0	252	0	1044
300000	0	71	0	0	0	1270	0	281	0	178
9032810020	1892	76	0	0	6330	38	165	17	62624	755
810060	0	0	43553	171	795	45	14572	584	3413	529

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	1165	7034	7	248	1172	7282
Bulgaria	0	0	0	0	0	0
Czechoslovakia	51	574	1	85	52	660
Denmark	174	1192	105	618	279	1811
East Germany	254	1181	150	4	404	1185
Finland	49	338	55	2457	104	2794
Hungary	1	70	0	0	1	70
Ireland	5	79	0	0	5	79
Luxembourg	0	0	0	0	0	0
Netherlands	202	1264	27	652	229	1916
Norway	1	12	3	185	4	197
Poland	179	2910	0	0	179	2910
Portugal	88	305	42	668	130	973
Romania	1	19	0	0	1	19
USSR	5	61	0	0	5	61
Yugoslavia	389	3260	6	516	395	3776
Oth Europe	45	1566	10	207	55	1773
TOTAL	39189	301507	4920	105621	44109	407127
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	127	56	1	5	128	61
Mexico	250	229	341	806	591	1035
Oth N & C Am.	0	0	0	0	0	0
TOTAL	1288	12371	1377	31452	2665	43823
SOUTH AMERICA						
Argentina	21	151	0	0	21	151
Chile	0	0	0	0	0	0
Colombia	1	15	0	0	1	15
Paraguay	0	0	0	0	0	0
Peru	1	2	0	0	1	2
Uruguay	0	0	0	0	0	0
Venezuela	3	326	0	0	3	326
Oth South Am.	0	0	0	0	0	0
TOTAL	1563	9148	0	0	1563	9148
OCEANIA						
Australia	53	1369	6	230	59	1599
New Zealand	1	5	115	338	116	342
Oth Oceania	0	0	0	0	0	0
TOTAL	54	1374	121	568	175	1941

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 June 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	55384	9190	1525	280	56909	9470
Hong Kong	384	296	6	19	390	315
India	98	1045	6	22	104	1067
Indonesia	1	3	0	0	1	3
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	84	1920	58	274	142	2193
Malaysia	0	0	1	150	1	150
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	1	68	0	0	1	68
TOTAL	429392	519047	7856	94276	437248	613323
AFRICA						
Ghana	4	8	0	0	4	8
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	5	59	18	102	23	160
Swaziland	2	3	0	0	2	3
Oth Africa	0	0	0	0	0	0
TOTAL	11	70	18	102	29	171

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

A8620-3

REPORT

NMTBA
The Association For
Manufacturing Technology
Direct Dial: (703) 827-5260

STATISTICAL

No. 126-90 October 3, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – JULY 1990

(Values in Millions of U.S. Dollars)

	July 1990	June 1990	Average Apr.-June	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 48.9	$ 44.0	$ 44.7	$ 356.2	$ 269.2	32.3%
Imports	$190.7	$137.8	$139.3	$1,034.2	$1,104.2	(6.3%)
Balance	($141.8)	($ 93.8)	($ 94.6)	($ 678.0)	($ 835.0)	(18.8%)
METAL FORMING MACHINE TOOLS						
Exports	$ 34.7	$ 42.7	$ 41.1	$ 274.4	$ 281.7	(2.6%)
Imports	$ 41.3	$ 45.0	$ 39.8	$ 273.2	$ 335.2	(18.5%)
Balance	($ 6.6)	($ 2.3)	$ 1.3	$ 1.2	($ 53.5)	N.M.
MACHINE TOOL TOTAL						
Exports	$ 83.6	$ 86.7	$ 85.9	$ 630.6	$ 550.8	14.5%
Imports	$232.0	$182.8	$179.0	$1,307.6	$1,439.5	(9.2%)
Balance	($148.4)	($ 96.1)	($ 93.1)	($ 676.9)	($ 888.7)	(23.8%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 27.9	$ 22.6	$ 25.1	$ 203.2	$ 131.8	54.2%
Imports	$119.9	$ 83.5	$ 92.4	$ 691.0	$ 767.0	(9.9%)
Balance	($ 92.0)	($ 60.9)	($ 67.3)	($ 487.8)	($ 635.2)	(23.2%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$135.7	$155.6	$156.8	$1,056.3	N.A.	N.A.
Imports	$164.2	$147.4	$160.1	$1,151.5	N.A.	N.A.
Balance	($ 28.5)	$ 8.2	($ 3.3)	($ 95.2)	N.A.	N.A.

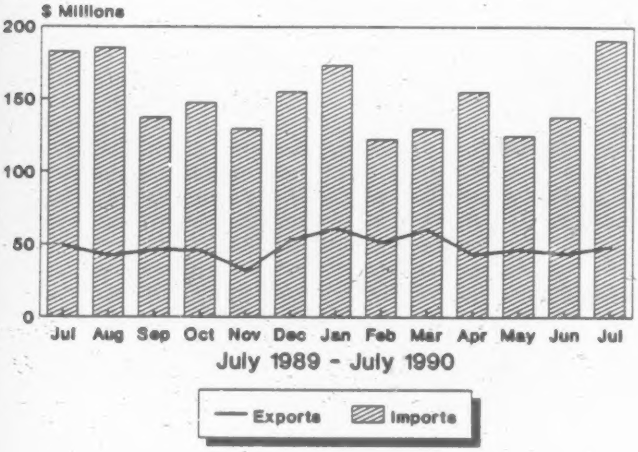
Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; N.M. = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

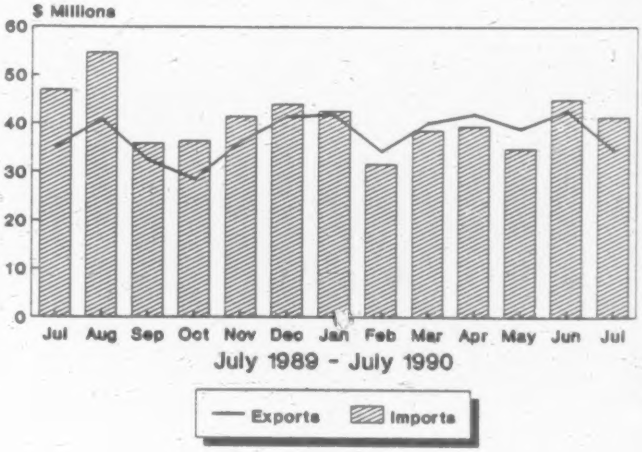
- Total U.S. machine tool imports jumped 27% in July over June to $232.0 million, the fourth highest monthly total ever. Year-to-date imports in 1990 through July were down 9% compared with the same period in 1989.

- Machine tool exports in 1990 through July were up 15% compared with 1989 at $630.6 million. The year-to-date machine tool trade deficit was down 24% in 1990 through July compared with 1989.

- Reversing three straight monthly declines, U.S. exports of numerically controlled machine tools rose 23% in July to $27.9 million; imports of NC machines rose 44% in July to $119.9 million.

U.S. MONTHLY TRADE IN MACHINE TOOLS


METAL CUTTING


METAL FORMING

METAL CUTTING MACHINE TOOLS

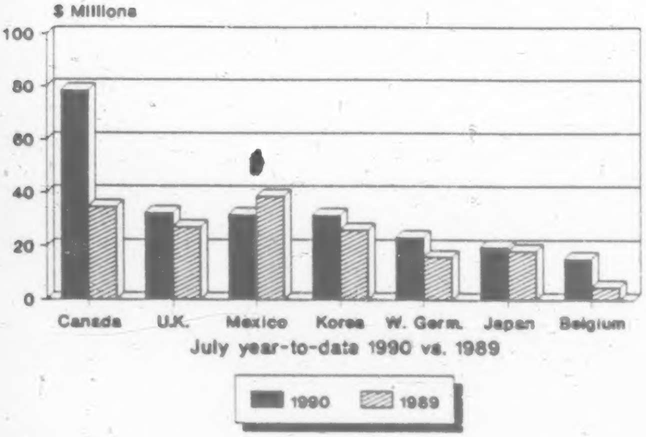
Exports

- Metal cutting exports in July were 11% higher than June at $48.9 million; year-to-date exports reached $356.2 million, 32% higher than 1989. Average monthly metal cutting exports so far in 1990: $50.9 million.

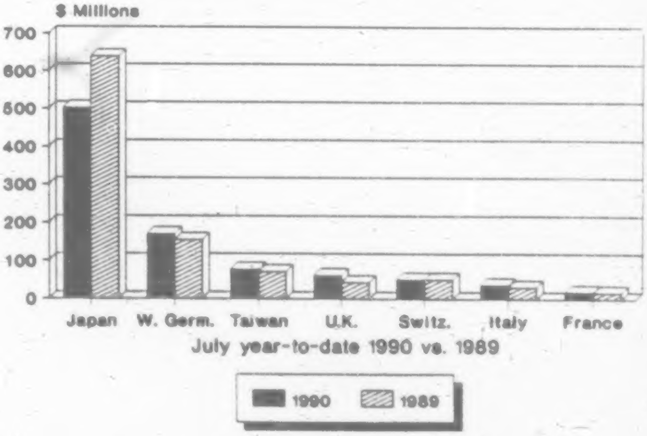
- Top metal cutting markets in July: Canada ($9.6 million); Taiwan ($4.8 million, including two non-knee type NC milling machines at $3.7 million); Japan ($4.3 million, including three gear cutting machines at $2.0 million); and South Korea ($4.1 million).

- Exports of boring and boring-milling machines in July ($3.2 million) were the highest since March 1989; exports of machining centers in July ($2.4 million) were the lowest since June 1989.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- U.S. metal cutting imports rose 38% in July over June to a record $190.7 million. The previous high: $185.6 million in August 1989.

- Metal cutting imports from West Germany in July were $47.7 million, more than twice June's level and West Germany's highest monthly total ever. Included in the $47.7 million: eight machining centers not elsewhere classified valued at $17.5 million.

- Grinding machine imports were $38.4 million in July, up from $21.1 million in June. The major suppliers of grinding machines in 1990 through July: Japan ($59.9 million), West Germany ($48.4 million), and Switzerland ($14.0 million).

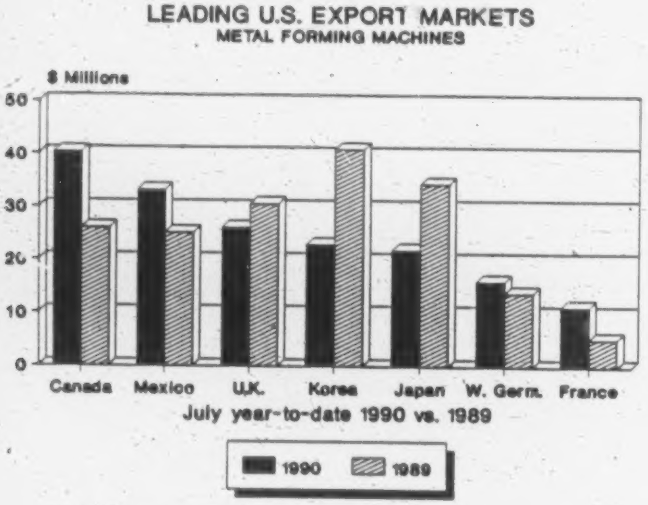
METAL FORMING MACHINE TOOLS

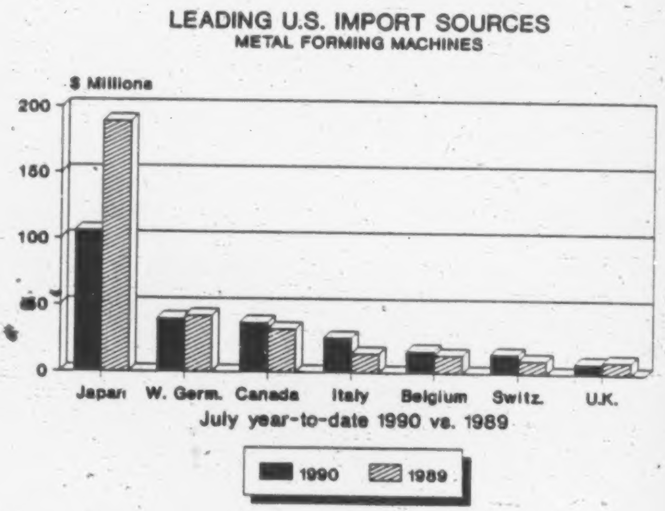
Exports

- U.S. exports of metal forming machines fell 19% in July to $34.7 million. Year-to-date exports: $274.4 million, down 3% from 1989.

- Year-to-date metal forming exports to Canada were $40.4 million in 1990 through July, up from $26.0 million in 1989. Year-to-date exports to South Korea ($22.8 million) and Japan ($21.9 million) were down 44% and 36%, respectively, from 1989 levels. Exports in July to Indonesia totalled $2.2 million and included four used or rebuilt bending or folding machines valued at $1.6 million.

- Exports of presses in July fell to $5.0 million, down from an average of $9.8 million during the first six months of 1990.





Imports

- Metal forming imports fell to $41.3 million in July from $45.0 million in June. The year-to-date total for 1990 through July: $273.2 million, down 19% from 1989.

- Year-to-date imports from Japan and West Germany were down 44% and 5%, respectively, from 1989 levels; imports from Canada and Italy were up 15% and 85%, respectively.

- Imports of presses fell in July ($6.8 million) after an unusually high June ($14.8 million). Imports of forging machines totalled $6.7 million in July; $5.1 million came from Japan.

OTHER MANUFACTURING TECHNOLOGY

Exports

- U.S. exports of other manufacturing technology totalled $135.7 million in July, the lowest monthly total for 1990. Exports of machine tool parts and accessories in 1990 through July were $416.8 million, compared with $405.0 million at the same time in 1989.

- Exports of industrial process control instruments were $6.1 million in July, the third straight monthly increase and the highest total since records have been kept starting in January 1989. The top markets so far in 1990: Japan ($4.1 million, including $3.1 million in July); the United Kingdom ($3.6 million); the Netherlands ($2.9 million) and Italy ($1.6 million).

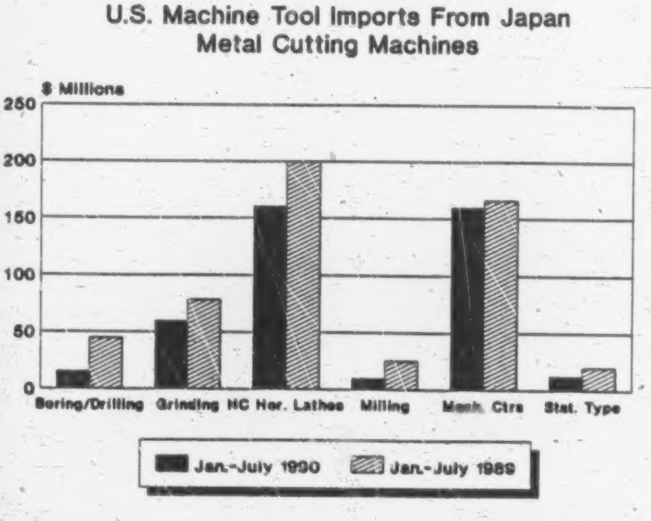
Imports

- U.S. imports of industrial robots and parts totalled $21.6 million in July for a year-to-date total of $144.3 million. Year-to-date imports of blow molding machines reached $27.7 million through July; the comparable figure for 1989: $27.0 million.

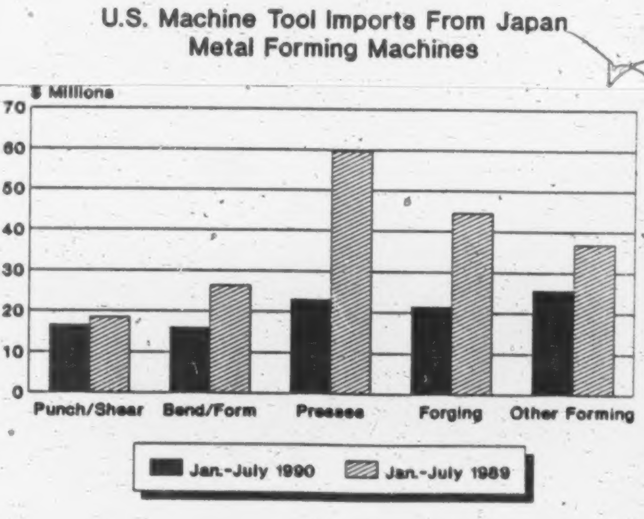
- Imports of injection molding machines for processing thermoplastics were $20.3 million in July for a year-to-date total of $144.1 million, 10% lower than last year. Imports of machine tool parts and accessories were $328.4 million in 1990 through July, down from $377.8 million in 1989.

MONTHLY FOCUS

Although U.S. machine tool imports from Japan in July rose 28% over June to $101.1 million, year-to-date imports from Japan were down 27% compared with 1989. Imports were lower across the spectrum of machine types; only gear cutting machines and vertical lathes showed increases. For example, imports of milling machines in 1989 from Japan were $25.4 million; in 1990 they stood at $9.7 million. The charts below detail select U.S. machine tool imports from Japan for the first seven months of 1989 and 1990.



U.S. Machine Tool Imports From Japan
Metal Cutting Machines



U.S. Machine Tool Imports From Japan
Metal Forming Machines

1990 EXPORTS

METAL CUTTING

COUNTRY	JULY	JUNE	%CHANGE	JUL YTD'90	JUL YTD'89	%CHANGE
Canada	$ 9,558,187	$ 8,211,929	16.39%	$ 78,461,441	$ 34,714,093	126.02%
U.K.	2,514,315	3,138,964	-19.90	32,517,892	27,204,874	19.53
Mexico	3,302,782	4,588,718	-28.02	31,742,173	38,740,777	-18.07
Korea	4,061,765	5,810,559	-30.10	31,597,285	26,023,098	21.42
West Germany	1,679,859	2,650,471	-36.62	23,366,803	16,001,648	46.03
Japan	4,292,618	2,916,763	47.17	19,842,514	18,403,467	7.82
Belgium	1,336,072	3,144,388	-57.51	15,506,901	4,765,859	225.37
China	337,484	1,715,133	-80.32	12,251,382	15,879,081	-22.85
Italy	3,498,144	1,572,870	122.41	11,627,473	8,089,779	43.73
India	551,288	1,159,705	~~-52.46~~	10,675,717	6,957,158	53.45
Australia	254,051	300,188	-15.37	10,261,072	6,647,273	54.37
Brazil	840,075	1,257,004	-33.17	9,539,234	5,953,800	60.22
Taiwan	4,824,914	146,816	3,186.37	8,224,153	5,282,752	55.68
France	1,288,794	202,196	537.40	6,165,548	8,797,703	-29.92
Singapore	765,516	1,223,822	-37.45	5,169,313	5,283,866	-2.17
Spain	1,741,512	514,182	238.70	4,417,390	2,750,072	60.63
Switzerland	1,086,587	654,355	66.05	4,115,493	2,620,779	57.03
Venezuela	213,555	444,916	-52.00	3,872,097	4,575,161	-15.37
Netherlands	1,180,542	249,726	372.73	3,707,464	3,374,657	9.86
USSR	465,855	0	NA	3,707,174	729,360	408.28
Thailand	40,625	92,736	-56.19	1,186,283	1,549,907	-23.46
Malaysia	535,305	180,053	197.30	1,178,213	529,091	122.69
Austria	6,892	8,850	-22.12	196,941	875,190	-77.50
Indonesia	7,209	15,206	-52.59	138,051	3,164,510	-95.64

METAL FORMING

COUNTRY	JULY	JUNE	%CHANGE	JUL YTD'90	JUL YTD'89	%CHANGE
Canada	$ 4,733,985	$ 6,207,367	-23.74%	$ 40,372,241	$ 26,008,693	55.23%
Mexico	4,212,057	4,649,387	-9.41	33,204,808	25,074,367	32.43
U.K.	2,364,764	7,343,964	-67.80	26,092,024	30,576,477	-14.67
Korea	2,794,171	3,181,811	-12.18	22,848,009	40,963,650	-44.22
Japan	3,468,414	1,305,146	165.75	21,928,693	34,391,314	-36.24
West Germany	2,576,570	2,004,273	28.55	16,012,922	13,795,319	16.08
France	1,526,959	1,000,289	52.65	11,269,882	5,175,673	117.75
China	412,000	2,283,502	-81.96	10,878,929	7,239,274	50.28
Taiwan	652,523	1,286,302	-49.27	9,639,920	6,218,113	55.03
Italy	246,961	428,157	-42.32	5,906,682	6,242,575	-5.38
India	416,593	203,752	104.46	5,719,341	6,396,157	-10.58
Netherlands	668,319	723,419	-7.62	4,658,807	5,020,332	-7.20
Spain	1,147,429	1,680,213	-31.71	4,469,343	2,925,068	52.79
Brazil	1,323,186	452,704	192.29	4,069,335	3,900,313	4.33
Singapore	744,197	484,998	53.44	4,016,294	6,359,056	-36.84
Malaysia	783,382	1,418,351	-44.77	3,912,245	1,323,485	195.60
Australia	467,673	459,225	1.84	3,760,701	4,871,894	-22.81
Thailand	808,493	1,681,444	-51.92	3,236,827	1,907,800	69.66
Indonesia	2,195,049	19,930	10,913.79	2,246,143	140,452	1,499.22
Belgium	62,640	420,495	-85.10	2,156,630	1,797,217	20.00
Austria	90,303	29,463	206.50	1,722,788	649,505	165.25
Switzerland	114,823	370,469	-69.01	1,495,331	975,036	53.36
Venezuela	105,075	337,214	-68.84	968,175	6,026,221	-83.93
USSR	0	83,204	-100.00	694,819	107,711	545.08

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JULY	JUNE	%CHANGE	JUL YTD'90	JUL YTD'89	%CHANGE
Canada	$ 14,292,172	$ 14,419,296	-0.88%	$118,833,682	$ 60,722,786	95.70%
Mexico	7,514,839	9,238,105	-18.65	64,946,981	63,815,144	1.77
U.K.	4,879,079	10,482,928	-53.46	58,609,916	57,781,351	1.43
Korea	6,855,936	8,992,370	-23.76	54,445,294	66,986,748	-18.72
Japan	7,761,032	4,221,909	83.83	41,771,207	52,794,781	-20.88
West Germany	4,256,429	4,654,744	-8.56	39,379,725	29,796,967	32.16
China	749,484	3,998,635	-81.26	23,130,311	23,118,355	0.05
Taiwan	5,477,437	1,433,118	282.20	17,864,073	11,500,865	55.33
Belgium	1,398,712	3,564,883	-60.76	17,663,531	6,563,076	169.13
Italy	3,745,105	2,001,027	87.16	17,534,155	14,332,354	22.34
France	2,815,753	1,202,485	134.16	17,435,430	13,973,376	24.78
India	967,881	1,363,457	-29.01	16,395,058	13,353,315	22.78
Australia	721,724	759,413	-4.96	14,021,773	11,519,167	21.73
Brazil	2,163,261	1,709,708	26.53	13,608,569	9,854,113	38.10
Singapore	1,509,713	1,708,820	-11.65	9,185,607	11,642,922	-21.11
Spain	2,888,941	2,194,395	31.65	8,886,733	5,675,140	56.59
Netherlands	1,848,861	973,145	89.99	8,366,271	8,394,989	-0.34
Switzerland	1,201,410	1,024,824	17.23	5,610,824	3,595,815	56.04
Malaysia	1,318,687	1,598,404	-17.50	5,090,458	1,852,576	174.78
Venezuela	318,630	782,130	-59.26	4,840,272	10,601,382	-54.34
Thailand	849,118	1,774,180	-52.14	4,423,110	3,457,707	27.92
USSR	465,855	83,204	459.89	4,401,993	837,071	425.88
Indonesia	2,202,258	35,136	6,167.81	2,384,194	3,304,962	-27.86
Austria	97,195	38,313	153.69	1,919,729	1,524,695	25.91

1990 IMPORTS

METAL CUTTING

COUNTRY	JULY	JUNE	%CHANGE	JUL YTD'90	JUL YTD'89	%CHANGE
Japan	$ 82,868,942	$ 61,866,240	33.95%	$502,608,205	$639,924,771	-21.46%
West Germany	47,717,660	22,447,701	112.57	170,473,384	154,553,341	10.30
Taiwan	11,572,427	10,017,567	15.52	77,014,155	70,904,638	8.62
U.K.	8,188,425	9,276,274	-11.73	61,621,529	42,635,298	44.53
Switzerland	9,304,644	10,115,054	-8.01	51,009,993	50,700,447	0.61
Italy	5,467,288	6,879,295	-20.53	37,159,582	30,508,401	21.80
France	5,537,454	2,118,338	161.41	18,254,529	16,209,525	12.62
Spain	4,666,415	1,404,000	232.37	16,265,148	11,299,168	43.95
Canada	2,011,567	1,345,208	49.54	14,097,370	12,368,447	13.98
Singapore	1,772,163	1,036,513	70.97	12,556,124	8,500,465	47.71
Korea	603,361	1,933,092	-68.79	11,163,927	14,651,637	-23.80
Brazil	347,652	1,596,332	-78.22	9,002,076	3,478,017	158.83
Sweden	1,982,368	1,953,507	1.48	8,705,371	7,060,569	23.30
Belgium	11,578	75,000	-84.56	1,027,318	4,409,773	-76.70

METAL FORMING

COUNTRY	JULY	JUNE	%CHANGE	JUL YTD'90	JUL YTD'89	%CHANGE
Japan	$ 18,257,269	$ 16,849,910	8.35%	$105,903,270	$188,991,068	-43.96%
West Germany	6,335,644	9,090,733	-30.31	39,858,867	41,791,190	-4.62
Canada	6,662,784	5,790,298	15.07	37,303,640	32,385,013	15.19
Italy	2,613,845	2,947,774	-11.33	25,807,866	13,953,501	84.96
Belgium	1,650,249	2,959,103	-44.23	16,358,081	13,297,048	23.02
Switzerland	2,061,889	1,446,139	42.58	14,330,264	9,564,052	49.83
U.K.	620,830	1,451,611	-57.23	7,960,867	9,180,041	-13.28
Taiwan	869,450	1,128,375	-22.95	6,573,583	5,294,444	24.16
Sweden	599,386	726,707	-17.52	4,903,181	5,810,855	-15.62
Spain	310,629	210,141	47.82	2,811,010	1,741,948	61.37
France	312,238	1,172,596	-73.37	2,455,522	988,944	148.30
Korea	0	0	NA	123,692	174,508	-29.12
Singapore	7,908	3,954	100.00	64,967	722,752	-91.01
Brazil	0	0	NA	0	143,425	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JULY	JUNE	%CHANGE	JUL YTD'90	JUL YTD'89	%CHANGE
Japan	$101,126,211	$ 78,716,150	28.47%	$608,511,475	$828,915,839	-26.59%
West Germany	54,053,304	31,538,434	71.39	210,332,251	196,344,531	7.12
Taiwan	12,441,877	11,145,942	11.63	83,587,738	76,199,082	9.70
U.K.	8,809,255	10,727,885	-17.88	69,582,396	51,815,339	34.29
Switzerland	11,366,533	11,561,193	-1.68	65,340,257	60,264,499	8.42
Italy	8,081,133	9,827,069	-17.77	62,967,448	44,461,902	41.62
Canada	8,674,351	7,135,506	21.57	51,401,010	44,753,460	14.85
France	5,849,692	3,290,934	77.75	20,710,051	17,198,469	20.42
Spain	4,977,044	1,614,141	208.34	19,076,158	13,041,116	46.28
Belgium	1,661,827	3,034,103	-45.23	17,385,399	17,706,821	-1.82
Sweden	2,581,754	2,680,214	-3.67	13,608,552	12,871,424	5.73
Singapore	1,780,071	1,040,467	71.08	12,621,091	9,223,217	36.84
Korea	603,361	1,933,092	-68.79	11,287,619	14,826,145	-23.87
Brazil	347,652	1,596,332	-78.22	9,002,076	3,621,442	148.58

1990 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		JULY'90 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	5,058	13,126,467	35,220	94,440,495
Boring Machines	23	2,694,052	28	725,470	16	3,194,775	109	12,453,146
Drilling Machines	141	1,391,074	120	1,137,000	61	1,735,259	641	11,004,304
Gear Cutting Machines	16	3,920,375	23	7,676,020	35	8,746,125	155	33,448,601
Grinding Machines	234	9,407,118	266	5,746,890	390	11,166,259	2,154	75,281,058
Horizontal Lathes NC	43	4,213,770	45	4,033,357	30	3,555,437	270	29,614,652
Vertical Lathes NC	4	245,844	1	63,000	5	276,808	36	2,963,166
Lathes Non-NC	60	1,105,382	85	1,435,017	65	899,416	457	10,245,650
Milling Machines	38	1,738,745	13	603,525	33	5,244,894	268	22,703,779
Machining Centers	23	4,666,577	39	6,176,997	24	2,387,041	261	39,839,987
Station Type Machines	2	2,487,300	0	0	1	245,000	51	21,066,899
Other Metal Cutting	484	5,316,601	378	6,376,676	267	4,712,434	2,388	46,536,558
Punching & Shearing Machines	162	6,578,641	178	7,923,077	143	5,170,365	977	43,232,018
Bending & Forming Machines	142	4,048,283	125	4,440,766	136	5,191,915	970	34,821,825
Presses	287	8,435,990	154	10,425,441	145	5,027,176	1,439	63,773,856
Forging Machines	67	6,501,594	40	3,738,610	42	5,222,953	248	29,333,239
Other Metal Forming	324	9,293,053	340	8,244,762	230	7,705,041	1,938	59,856,665
TOTAL	7,564	85,368,156	8,391	86,669,510	6,681	83,607,365	47,582	630,615,898

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JULY 1989		JULY'89 Y-T-D TOTALS	
	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	4,243	14,523,609	31,822	89,949,907
Boring Machines	4	75,744	178	10,914,642
Drilling Machines	24	1,428,421	173	9,784,857
Gear Cutting Machines	55	5,208,745	166	22,054,513
Grinding Machines	392	19,501,133	2,285	75,177,039
Horizontal Lathes NC	13	1,512,085	139	13,966,315
Vertical Lathes NC	2	367,521	12	1,664,781
Lathes Non-NC	59	1,779,338	311	8,776,318
Milling Machines	74	4,101,114	377	19,887,672
Machining Centers	23	4,190,223	150	23,124,270
Station Type Machines	1	45,678	31	9,291,964
Other Metal Cutting	130	6,166,339	1,416	34,579,226
Punching & Shearing Machines	105	4,248,102	704	34,286,958
Bending & Forming Machines	84	2,346,841	636	29,395,382
Presses	97	8,025,313	895	45,314,682
Forging Machines	49	2,299,970	417	22,874,206
Other Metal Forming	252	8,625,468	2,695	99,797,850
TOTAL	5,607	84,445,644	42,407	550,840,582

PRODUCT TYPES	% CHANGE JUN 90' - JUL 90'		% CHANGE JUL 89' - JUL 90'		% CHANGE YTD 89' - YTD 90'	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-22.85	-26.76	19.21	-9.62	10.68	4.99
Boring Machines	-42.86	340.37	300.00	4,117.86	-38.76	14.10
Drilling Machines	-49.17	52.62	154.17	21.48	270.52	12.46
Gear Cutting Machines	52.17	13.94	-36.36	67.91	-6.63	51.66
Grinding Machines	46.62	94.30	-0.51	-42.74	-5.73	0.14
Horizontal Lathes NC	-33.33	-11.85	130.77	135.13	94.24	112.04
Vertical Lathes NC	400.00	339.38	150.00	-24.68	200.00	77.99
Lathes Non-NC	-23.53	-37.32	10.17	-49.45	46.95	16.74
Milling Machines	153.85	769.04	-55.41	27.89	-28.91	14.16
Machining Centers	-38.46	-61.36	4.35	-43.03	74.00	72.29
Station Type Machines	NA	NA	0.00	436.36	64.52	126.72
Other Metal Cutting	-29.37	-26.10	105.38	-23.58	68.64	34.58
Punching & Shearing Machines	-19.66	-34.74	36.19	21.71	38.78	26.09
Bending & Forming Machines	8.80	16.91	61.90	121.23	52.52	18.46
Presses	-5.84	-51.78	49.48	-37.36	60.78	40.74
Forging Machines	5.00	39.70	-14.29	127.09	-40.53	28.24
Other Metal Forming	-32.35	-6.55	-8.73	-10.67	-28.09	-40.02
TOTAL	-20.38	-3.53	19.15	-0.99	12.20	14.48

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		JUL'90 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	76,189	13,858,003	537,734	89,154,708
Boring Machines	63	2,378,706	33	4,123,015	88	7,667,947	369	23,308,613
Drilling Machines	105	1,412,575	110	2,955,449	220	7,524,179	932	27,563,916
Gear Cutting Machines	60	1,682,253	14	2,742,090	28	3,959,955	286	25,115,163
Grinding Machines	761	22,855,644	751	21,054,909	780	38,441,928	5,105	169,387,746
Horizontal Lathes NC	246	26,717,053	257	26,221,605	306	27,483,344	1,997	189,198,638
Vertical Lathes NC	12	2,697,583	10	1,453,386	28	3,717,107	98	15,742,834
Lathes Non-NC	684	8,838,746	758	16,925,801	799	9,013,925	5,112	72,736,825
Milling Machines	498	6,400,652	481	7,074,128	558	9,880,698	3,444	50,306,041
Machining Centers	212	21,375,164	269	26,963,021	272	46,323,978	1,997	248,010,154
Station Type Machines	9	5,207,130	4	4,151,942	13	9,081,198	107	37,159,415
Other Metal Cutting	477	14,389,120	302	13,417,230	431	15,980,415	2,949	101,680,135
Punching & Shearing Machines	168	5,567,876	165	6,624,692	138	8,166,921	1,052	43,912,030
Bending & Forming Machines	245	7,810,331	181	8,443,572	162	6,083,506	1,350	48,392,727
Presses	410	4,231,697	74	14,834,727	281	6,834,799	1,710	50,267,254
Forging Machines	46	3,389,713	85	3,437,927	90	6,719,333	597	37,373,610
Other Metal Forming	198	11,187,287	186	10,134,241	297	11,238,578	1,630	78,200,032
TOTAL	85,661	159,844,485	89,054	182,828,669	80,680	231,975,814	566,469	1,307,509,841

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JULY 1989		JUL'89 Y-T-D TOTALS	
	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	77,910	13,718,883	376,111	90,588,175
Boring Machines	81	7,293,496	523	37,840,681
Drilling Machines	104	5,203,287	1,070	51,213,722
Gear Cutting Machines	61	3,683,843	458	24,343,316
Grinding Machines	649	31,278,466	4,630	167,967,502
Horizontal Lathes NC	429	33,974,512	2,505	227,029,436
Vertical Lathes NC	11	5,265,883	92	15,656,550
Lathes Non-NC	503	7,584,504	3,148	53,552,409
Milling Machines	556	12,482,002	3,388	69,510,148
Machining Centers	335	38,239,581	2,055	228,783,445
Station Type Machines	26	10,264,530	128	37,363,486
Other Metal Cutting	442	15,809,995	2,973	113,976,593
Punching & Shearing Machines	243	9,209,241	1,127	46,814,109
Bending & Forming Machines	216	7,023,861	1,708	57,207,478
Presses	103	8,456,517	1,113	93,043,930
Forging Machines	189	9,336,801	1,044	59,234,318
Other Metal Forming	185	10,660,150	3,546	65,336,462
TOTAL	82,043	229,485,552	405,619	1,439,461,760

PRODUCT TYPES	% CHANGE JUN'90 - JUL'90		% CHANGE JUL'89 - JUL'90		% CHANGE YTD'89 - YTD'90	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-10.76	12.93	-2.21	1.01	42.97	-1.58
Boring Machines	166.67	85.98	8.64	5.13	-29.45	-38.40
Drilling Machines	100.00	154.59	111.54	44.60	-12.90	-46.18
Gear Cutting Machines	100.00	44.41	-54.10	7.50	-37.55	3.17
Grinding Machines	3.86	82.58	20.18	22.90	10.26	0.85
Horizontal Lathes NC	19.07	4.81	-28.67	-19.11	-20.28	-16.66
Vertical Lathes NC	180.00	155.75	154.55	-29.41	6.52	0.55
Lathes Non-NC	5.41	-46.74	58.85	18.85	62.39	35.82
Milling Machines	16.01	39.67	0.36	-20.84	1.65	-27.63
Machining Centers	1.12	71.81	-18.81	21.14	-2.82	8.40
Station Type Machines	225.00	118.72	-50.00	-11.53	-16.41	-0.55
Other Metal Cutting	42.72	19.10	-2.49	1.08	-0.81	-10.79
Punching & Shearing Machines	-16.36	23.28	-43.21	-11.32	-6.65	-6.20
Bending & Forming Machines	-10.50	-27.95	-25.00	-13.39	-20.96	-15.41
Presses	279.73	-53.93	172.82	-19.18	53.64	-45.97
Forging Machines	5.88	95.45	-52.38	-28.03	-42.82	-36.91
Other Metal Forming	59.68	10.90	60.54	5.43	-54.03	19.69
TOTAL	-9.40	26.88	-1.66	1.09	39.66	-9.17

U.S. EXPORTS
Metal Cutting Machine Tools - July 90

RELEASED: October 3, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	42	3030	2	137
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	54	9250	4	482
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	11	2152	1	109
100035	Horiz. mach. ctrs., ATC	39	10736	4	1046
100045	Mach. ctrs., n.e.c.	157	17702	15	750
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	7	11259	0	0
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	18	4337	3	755
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	196	15019	15	1223
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	41	5525	11	1477
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	15	4734	1	100
190030	Horiz. engine or toolroom lathes, non-NC	78	1524	4	64
190050	Automatic bar and/or chucking mach., single spindle, non-NC	7	242	1	3
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	31	1471	4	238
190090	Horiz. lathes, n.e.c., non-NC	262	3016	49	346
911060	Vertical turret lathes, multiple spindle, NC	1	63	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	14	657	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	19	1927	5	277
991050	Vertical turret lathes, non-NC	26	609	3	37
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	53	3384	4	211
8459100000	Way-type unit head machines	15	2202	1	245
210080	Other drilling machines, NC	64	5486	10	811
290040	Drilling machines, multiple spindle, non-NC	23	1107	9	392
290050	Drilling machines, radial, non-NC	17	145	0	0
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	66	1228	14	226
290090	Drilling machines, n.e.c., non-NC	471	3039	28	306
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	5	1375
310070	Boring-milling mach., n.e.c., NC	12	675	4	290
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	21	799	0	0
400040	Boring machines, vertical, NC	3	1589	1	690
400050	Boring machines, vertical, non-NC	31	510	2	20
400070	Boring machines, n.e.c., NC	9	3308	2	772
400080	Boring machines, n.e.c., non-NC	20	896	2	48
510080	Milling machines, knee type, NC	15	1181	4	467
590030	Milling machines, knee type, non-NC	58	1896	9	347
610080	Milling machines, excl. knee type, n.e.c., NC	37	13793	4	3940
690050	Milling machines, profile, dup., or die sinking, non-NC	22	511	0	0
690070	Milling machines, bed type, non-NC	2	288	1	238
690090	Milling machines, n.e.c., non-NC	134	5035	15	253
700020	Threading or tapping machines, n.e.c., NC	21	880	5	131
700080	Threading or tapping machines, n.e.c., non-NC	268	2678	33	194
8460110080	Flat surface grinding mach., NC	42	4176	7	892
190010	Flat surface grinding mach., recip.-table type, non-NC	29	565	0	0
190050	Flat surface grinding mach., n.e.c., non-NC	23	3862	1	226
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	58	17366	9	2325
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	22	3321	6	1115
290030	Grinding mach., internal cylindrical, non-NC	27	2539	3	85
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	214	8975	32	1459
310080	Sharpening machines (tool & cutter grinding), NC	29	2924	3	1278
390050	Sharpening machines (tool & cutter grinding), non-NC	619	10602	158	1181
400060	Honing or lapping machines, NC	1	492	1	492
400080	Honing or lapping machines, non-NC	409	8868	58	628
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	6	765	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	675	10827	112	1485
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	206	5630	29	326
200010	Shaping or slotting machines, NC	3	87	0	0
200090	Shaping or slotting machines, non-NC	25	613	2	33
300060	Broaching machines, NC	10	1139	0	0
300080	Broaching machines, non-NC	18	1245	0	0
401050	Gear hobbers	20	2506	8	466
401070	Gear shapers	25	4911	7	1227
401090	Gear cutting machines, n.e.c.	62	22404	14	6823
405060	Gear grinding or finishing machines	48	3627	6	230
500050	Sawing or cutting-off machines, NC	92	3113	9	537
500090	Sawing or cutting-off machines, non-NC	869	11454	111	1644
9000000001	Metal cutting machine tools, n.e.c.	833	16557	76	1711
9800000001	Used or rebuilt machine tools	2906	37496	433	4374
9900000001	Machine tools valued at less than $2,500	21864	13539	3180	2341
	Cutting Total			4540	48879
	Y-T-D Cutting Total	31560	356193		
	NC Y-T-D Cutting Total*	1131	152856		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS

Metal Cutting Machine Tools - July 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	137
8457100015	0	0	0	0	0	0	0	0	3	368
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	1	222	0	0	1	237
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	2	655
110030	0	0	0	0	3	247	0	0	0	0
110050	0	0	0	0	8	832	1	226	2	419
110090	0	0	0	0	0	0	0	0	1	100
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	3
190070	0	0	0	0	0	0	0	0	2	201
190090	20	50	0	0	0	0	0	0	12	194
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	103
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	298
290040	0	0	0	0	0	0	0	0	8	367
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	12	114
290090	0	0	0	0	0	0	0	0	16	85
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	9
400070	0	0	0	0	0	0	0	0	2	772
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	3	412
590030	1	46	0	0	0	0	0	0	3	103
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	7	0	0	0	0	0	0	3	17
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	18	87
8460110080	0	0	0	0	0	0	0	0	2	622
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	1	49
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	140
310080	1	32	0	0	0	0	0	0	1	52
390050	3	21	0	0	0	0	0	0	77	639
400060	0	0	0	0	0	0	0	0	1	492
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	1	185	29	271
8461100060	0	0	0	0	0	0	0	0	0	0
100080	4	23	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	2	33
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	385	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	8	518
500090	1	23	0	0	0	0	0	0	28	449
9000000001	0	0	0	0	0	0	3	44	21	127
9800000001	0	0	2	7	0	0	0	0	71	1233
9900000001	76	53	0	0	27	36	0	0	245	252
Month Tot	107	254	2	7	39	1336	6	840	583	9558
Y-T-D Tot	1232	10261	87	197	375	15507	489	9539	3808	78461
NC YTD Tot*	14	4789	1	23	121	13900	13	2216	266	43932

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - July 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	1	114	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	2	37
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	2	117	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	5	1375
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	41	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	108
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	1	3	0	0	0	0	1	8
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	263
290010	0	0	2	935	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	9	304	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	7	101
900060	0	0	0	0	0	0	0	0	0	0
900080	1	4	0	0	1	7	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	31
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	2	1310
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	2	45	0	0	1	22
9000000001	0	0	0	0	0	0	1	3	0	0
9800000001	7	62	9	302	9	158	0	0	13	198
9900000001	0	0	88	49	63	38	7	4	69	44
Month Tot	12	337	100	1289	84	551	8	7	103	3498
Y-T-D Tot	165	12251	786	6166	578	10676	72	138	1022	11627
NC YTD Tot*	28	7814	44	2999	10	3031	0	0	46	3444

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - July 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	1	109	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	10	479	0	0	0	0	2	95	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	1	100	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	1	10	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	10	51	0	0	3	28	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	4	174	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	105	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	5	373	0	0
290040	0	0	0	0	0	0	0	0	1	26
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	1	3	0	0
290090	0	0	5	17	3	183	1	9	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	1	690	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	2	48	0	0
510080	0	0	0	0	0	0	1	55	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	1	238	0	0
690090	0	0	0	0	0	0	5	116	0	0
700020	0	0	0	0	0	0	1	22	0	0
700080	0	0	0	0	0	0	1	3	0	0
8460110080	0	0	0	0	1	22	1	165	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	3	131
290030	0	0	0	0	0	0	1	15	0	0
290050	3	305	0	0	0	0	10	169	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	45	293	4	23	0	0	2	29	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	38	396	1	19	1	21	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	12	132	3	27	0	0	7	65	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	9	195	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	5	219	0	0	0	0	2	1008
401090	3	1959	6	1744	0	0	0	0	0	0
405060	0	0	6	230	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	9	76	4	59	0	0	23	284	0	0
9000000001	5	408	7	82	0	0	9	154	0	0
9800000001	133	332	23	454	1	10	69	483	0	0
9900000001	468	309	78	70	130	193	522	343	19	15
Month Tot	688	4293	190	4062	137	535	684	3303	25	1181
Y-T-D Tot	2747	19843	1082	31597	321	1178	5873	31742	324	3707
NC YTD Tot*	60	5920	52	9720	2	131	134	8371	9	860

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - July 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	1	99	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	2	28	0	0	0	0	1	10	0	0
995090	1	50	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	1	245	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
31004	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	2	3744	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	2	11	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	3	430	0	0	2	763	1	312	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	172	0	0	0	0	6	200	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	4	30	0	0	0	0	1	7
900060	0	0	0	0	0	0	0	0	0	0
900080	1	5	3	30	12	111	2	94	3	11
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	2	1425	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	2	9	0	0	4	78	0	0
9000000001	0	0	0	0	2	15	5	13	0	0
9800000001	1	30	1	3	13	148	0	0	0	0
9900000001	44	40	378	245	99	50	33	29	53	23
Month Tot	55	766	390	1742	128	1087	56	4825	57	41
Y-T-D Tot	936	5169	594	4417	764	4115	496	8224	179	1186
NC YTD Tot*	13	950	24	998	4	1182	18	5099	2	122

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - July 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	382	0	0	0	0	0	0	0	0
100045	1	65	0	0	0	0	1	205	0	0
200010	0	0	0	0	2	111	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	9	650	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	2	228
110090	0	0	0	0	0	0	0	0	0	0
190030	3	54	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	4	23
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	2	56
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	24
290050	0	0	0	0	0	0	0	0	0	0
290070	1	109	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	3	12
310040	0	0	0	0	0	0	0	0	0	0
310070	1	185	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	1	51	2	54
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	1	10
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	3	117	1	40
690050	0	0	0	0	1	87	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	4	110	0	0	0	0	0	0	4	102
700080	2	11	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	2	6	0	0	8	76
190010	0	0	0	0	0	0	0	0	3	83
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	226	0	0
290010	0	0	0	0	0	0	1	258	1	299
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	2	70	0	0
310080	0	0	0	0	0	0	0	0	1	168
390050	0	0	0	0	0	0	0	0	1	1194
400060	0	0	0	0	0	0	27	177	0	0
400080	2	15	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	2	7	2	33
900080	6	62	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	2	5	9	57	20	418
100080	2	20	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	13	58
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	8	466	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	1	19	0	0	0	0	0	0	0	0
500090	14	323	0	0	0	0	0	0	0	0
9000000001	6	281	0	0	0	0	4	61	19	217
9800000001	21	129	0	0	0	0	3	38	14	544
9900000001	400	101	0	0	0	0	18	398	42	427
					2	4	25	16	354	428
Month Tot	474	2514	8	466	9	214	97	1680	498	4495
Y-T-D Tot	2803	32518	23	3707	497	3872	1557	23367	4750	26725
NC YTD Tot*	144	21541	0	0	6	415	32	5292	88	10106

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 90

RELEASED: October 3, 1990

Metal Forming Machine Tools

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	218	6970	15	1376
8462100030	Headers and upsetters, including cold headers	36	11716	6	2160
100050	Forging or die stamping machines, and hammers, n.e.c.	212	17617	36	3063
210080	Bending, folding, straight. or flat. mach., incl presses, NC	190	14905	32	2289
290030	Press brakes, non-NC	110	2710	1	36
290040	Bending rolls, non-NC	57	1335	14	415
290050	Bending, folding, straight., or flat., n.e.c., non-NC	613	15872	89	2452
310080	Shearing machines, NC	52	5230	8	685
390050	Shearing machines, non-NC	223	5084	21	823
410080	Punching or notching mach., incl. comb. punch & shear, NC	115	17504	13	1968
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	587	15413	101	1694
910060	Hydraulic presses, NC	43	2972	5	335
910090	Hydraulic presses, non-NC	430	18433	47	912
990030	Presses, n.e.c., NC	106	9741	28	1261
990040	Presses, mechanical, non-NC	60	6947	7	690
990060	Presses, n.e.c., non-NC	800	25680	58	1828
8463100080	Draw benches for bars, tubes, profiles, wire or the like	106	2914	15	418
200080	Thread rolling machines	28	1478	1	86
300080	Machines for working wire	453	13961	102	2790
900080	Metal forming machine tools, n.e.c.	1133	34533	97	3034
9800000002	Used or rebuilt machine tools	2067	37148	219	5476
9900000002	Machine tools valued at less than $2,500	8383	6258	1226	935

	UNITS	$000	UNITS	$000
Forming Total			2141	34729
Y-T-D Forming Total	16022	274423		
NC Y-T-D Forming Total	506	50353		
Cutting and Forming Totals:				
Monthly Total			6681	83607
Y-T-D Total	47582	630616		
NC Y-T-D Total*	1637	203209		

Other Manufacturing Technology

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	416812	0	52520
2000000000	Parts for working rubber or plastics - heading 8477	0	168073	0	21958
2710003070	Quenching or cutting oils	0	15913	0	547
8428900010	Industrial robots for lifting, handling, loading or unload	237	4241	29	644
8431390090	Parts industrial robots, handling and loading - heading 8428	0	42622	0	5541
8456100000	Laser, light or photon beam for working any material	486	25567	80	5867
200000	Ultrasonic process for working any material	62	1650	7	355
8477106010	Injection molding mach., for rubber or oth. thermosetting	122	8143	4	281
106070	Injection molding mach., for thermoplastics	241	31148	45	6600
200010	Extruders for rubber or other thermosetting materials	231	8985	27	828
200050	Extruders for processing thermoplastics	505	24179	80	4605
300000	Blow molding machines	380	27326	45	1569
400000	Vacuum-molding and other thermoforming machines	4461	8509	276	1311
510010	Machines for molding or retreading pneumatic tires	567	11392	101	1894
510090	Machines for molding or otherwise forming inner tubes	242	24005	52	169
590000	Machines for molding or otherwise forming n.e.c.	775	14108	126	1853
800000	Machines for working rubber or plastics n.e.c.	2376	60689	330	6803
8479899040	Industrial robots, n.e.c.	3469	33792	450	3654
908040	Industrial robot parts	0	18705	0	1757
8537100030	Numerical controls for controlling machine tools	1281	18545	156	2214
9024100000	Machines and appliances for testing metals	0	42674	0	6300
9031100000	Machines for balancing mechanical parts	0	17901	0	1429
300000	Profile projectors	0	5466	0	948
9032810040	Industrial process control instr., hydraulic or pneumatic	388855	25860	65392	6097

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	1	881
8462100030	0	0	0	0	0	0	0	0	1	213
100050	0	0	0	0	0	0	0	0	3	260
210080	2	108	0	0	0	0	0	0	2	346
290030	0	0	0	0	0	0	0	0	1	36
290040	0	0	0	0	0	0	0	0	5	168
290050	1	6	1	90	0	0	0	0	17	261
310080	1	33	0	0	0	0	0	0	3	415
390050	0	0	0	0	0	0	0	0	8	102
410080	0	0	0	0	0	0	0	0	3	592
490050	1	3	0	0	1	63	48	604	11	141
910060	0	0	0	0	0	0	0	0	1	23
910090	1	19	0	0	0	0	0	0	11	100
990030	0	0	0	0	0	0	0	0	4	91
990040	0	0	0	0	0	0	0	0	1	183
990060	0	0	0	0	0	0	2	60	10	80
8463100080	3	34	0	0	0	0	1	125	2	9
200080	1	86	0	0	0	0	0	0	0	0
300080	1	53	0	0	0	0	40	260	2	88
900080	3	61	0	0	0	0	0	0	17	204
9800000002	2	13	0	0	0	0	2	261	52	389
9900000002	81	50	0	0	0	0	16	13	182	153
Month Tot	97	468	1	90	1	63	109	1323	337	4734
Y-T-D Tot	313	3761	38	1723	515	2157	422	4069	2572	40372
NC YTD Tot	25	1876	0	0	0	0	8	501	96	12536
C&F Month	204	722	3	97	40	1399	115	2163	920	14292
C&F Y-T-D	1545	14022	125	1920	890	17664	911	13609	6380	118834
C&F NC YTD*	39	6665	1	23	121	13900	21	2717	362	56468

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
1000000000	0	876	0	97	0	732	0	729	0	11807
2000000000	0	391	0	81	0	782	0	639	0	6125
2710003070	0	17	0	0	0	0	0	0	0	115
8428900010	0	0	0	0	0	0	0	0	6	120
8431390090	0	132	0	0	0	28	0	0	0	1586
8456100000	0	0	0	0	0	0	3	450	5	86
200000	0	0	0	0	1	202	0	0	2	56
8477106010	0	0	0	0	1	82	0	0	1	59
106070	0	0	3	559	0	0	0	0	9	1659
200010	0	0	0	0	0	0	0	0	25	724
200050	0	0	0	0	1	27	2	172	10	249
300000	3	56	0	0	0	0	0	0	1	251
400000	8	70	0	0	0	0	0	0	2	390
510010	0	0	0	0	7	25	4	101	3	103
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	0	0	0	0	4	213
800000	8	46	0	0	4	51	0	0	82	3929
8479899040	1	7	0	0	0	0	0	0	315	1891
908040	0	10	0	0	0	5	0	0	0	950
8537100030	1	8	1	20	3	32	1	69	6	59
9024100000	0	57	0	18	0	76	0	125	0	879
9031100000	0	4	0	0	0	0	0	0	0	271
300000	0	0	0	0	0	0	0	0	0	48
9032810040	1002	66	79	10	740	37	1	3	1523	317

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	352	0	0	0	0	5	25	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	3	576	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	4	162	5	130	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	546	2	28	0	0	0	0
410080	0	0	0	0	0	0	0	0	4	161
490050	0	0	0	0	5	91	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	26	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	3	438	0	0	0	0	0	0
990060	1	60	0	0	0	0	0	0	0	0
8463100080	0	0	1	18	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	7	49	0	0	0	0	1	28
900080	0	0	6	152	6	147	0	0	5	45
9800000002	0	0	19	99	0	0	4	1594	0	0
9900000002	0	0	37	38	28	21	0	0	17	13
Month Tot	3	412	79	1527	46	417	12	2195	27	247
Y-T-D Tot	331	10879	413	11270	326	5719	19	2246	207	5907
NC YTD Tot	3	2629	36	4031	0	0	3	576	7	750
C&F Month	15	749	179	2816	130	968	20	2202	130	3745
C&F Y-T-D	496	23130	1199	17435	904	16395	91	2384	1229	17534
C&F NC YTD*	31	10443	80	7030	10	3031	3	576	53	4195

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
1000000000	0	993	0	1322	0	197	0	54	0	929
2000000000	0	45	0	661	0	545	0	41	0	197
2710003070	0	0	0	0	0	0	0	19	0	0
8428900010	0	0	1	6	0	0	0	0	0	0
8431390090	0	17	0	84	0	56	0	37	0	15
8456100000	0	0	0	0	0	0	0	0	14	663
200000	0	0	0	0	0	0	0	0	1	13
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	1	242	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	1	450	13	858	0	0	2	106
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	1	7	0	0	0	0	0	0
510010	0	0	0	0	1	81	0	0	0	0
510090	0	0	4	42	0	0	0	0	0	0
590000	0	0	5	68	5	52	0	0	5	80
800000	0	0	0	0	0	0	2	36	1	8
8479899040	0	0	0	0	0	0	0	0	0	0
908040	0	0	0	20	0	0	0	0	0	6
8537100030	0	0	15	229	0	0	0	0	14	295
9024100000	0	22	0	93	0	11	0	0	0	814
9031100000	0	0	0	120	0	3	0	0	0	3
300000	0	0	0	29	0	0	0	0	0	6
9032810040	1515	76	3321	209	1855	51	0	0	2001	151

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 90

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	6	64	0	0	1	55	0	0
8462100030	5	1947	0	0	0	0	0	0	0	0
100050	0	0	2	126	0	0	0	0	0	0
210080	5	212	1	50	1	35	9	368	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	4	61	0	0
290050	4	54	19	475	0	0	17	784	0	0
310080	1	49	0	0	0	0	1	95	2	92
390050	0	0	0	0	0	0	8	85	0	0
410080	0	0	1	721	0	0	0	0	4	443
490050	2	46	0	0	10	331	4	96	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	8	141	1	85
990030	0	0	0	0	2	418	0	0	0	0
990040	0	0	0	0	0	0	2	60	0	0
990060	0	0	17	1195	0	0	23	380	0	0
8463100080	1	36	0	0	0	0	2	40	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	2	15	0	0	0	0	13	246	0	0
900080	10	250	1	36	0	0	11	129	1	43
9800000002	3	830	5	106	0	0	82	1367	0	0
9900000002	94	29	20	21	0	0	360	305	10	6
Month Tot	127	3468	72	2794	13	783	545	4212	18	668
Y-T-D Tot	1175	21929	478	22848	79	3912	3624	33205	173	4659
NC YTD Tot	24	3093	34	3443	11	653	74	4521	32	2887
C&F Month	815	7761	262	6856	150	1319	1229	7515	43	1849
C&F Y-T-D	3922	41771	1560	54445	400	5090	9497	64947	497	8366
C&F NC YTD*	84	9013	86	13163	13	784	208	12892	41	3746

Other Manufacturing Technology

1000000000	0	6298	0	1882	0	1563	0	3640	0	716
2000000000	0	500	0	376	0	136	0	1668	0	632
2710003070	0	10	0	0	0	14	0	31	0	0
8428900010	3	5	0	0	0	0	2	17	0	0
8431390090	0	57	0	87	0	30	0	163	0	88
8456100000	24	2521	0	0	4	84	0	0	3	72
200000	0	0	0	0	0	0	1	14	1	13
8477106010	0	0	0	0	0	0	1	41	0	0
106070	0	0	0	0	0	0	9	748	0	0
200010	0	0	0	0	0	0	2	105	0	0
200050	6	149	1	7	1	44	2	37	1	168
300000	1	247	0	0	0	0	5	15	0	0
400000	234	192	0	0	0	0	15	471	0	0
510010	0	0	0	0	0	0	2	3	0	0
510090	1	41	0	0	0	0	0	0	0	0
590000	37	684	5	201	10	22	3	10	0	0
800000	5	152	1	5	3	5	155	418	0	0
8479899040	24	358	0	0	0	0	0	0	12	80
908040	0	202	0	3	0	5	0	3	0	7
8537100030	3	40	7	104	0	0	3	32	5	69
9024100000	0	1278	0	549	0	19	0	154	0	21
9031100000	0	61	0	486	0	4	0	87	0	0
300000	0	544	0	4	0	0	0	4	0	0
9032810040	2035	3124	4236	216	0	0	229	22	6771	344

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	140	5	461	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	55	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	113	0	0	2	62	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	2	62	0	0	0	0	0	0	0	0
410080	0	0	1	50	0	0	0	0	0	0
490050	2	11	0	0	0	0	0	0	0	0
910060	0	0	1	14	0	0	0	0	9	108
910090	1	7	7	109	0	0	3	21	0	0
990030	1	323	20	321	0	0	0	0	9	315
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	1	5	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	20	2	192	1	7	0	0	1	99
900080	0	0	0	0	1	25	4	65	4	277
9800000002	1	5	0	0	0	0	23	497	0	0
9900000002	74	64	0	0	24	20	12	9	10	9
Month Tot	85	744	36	1147	28	115	44	653	33	808
Y-T-D Tot	337	4016	114	4469	216	1495	263	9640	97	3237
NC YTD Tot	5	584	25	499	1	30	21	1531	1	68
C&F Month	140	1510	426	2889	156	1201	100	5477	90	849
C&F Y-T-D	1273	9186	708	8887	980	5611	759	17864	276	4423
C&F NC YTD*	18	1534	49	1498	5	1212	39	6630	3	190

Other Manufacturing Technology

1000000000	0	794	0	203	0	369	0	764	0	361
2000000000	0	190	0	150	0	245	0	163	0	244
2710003070	0	37	0	0	0	0	0	56	0	0
8428900010	0	0	0	0	1	215	0	0	0	0
8431390090	0	60	0	0	0	3	0	0	0	14
8456100000	0	0	1	18	6	169	1	18	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	2	46	0	0	0	0	1	8	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	1	7	0	0
510010	0	0	4	99	0	0	1	20	0	0
510090	0	0	0	0	42	14	0	0	0	0
590000	0	0	0	0	7	106	1	13	0	0
800000	14	554	0	0	0	0	21	41	0	0
8479899040	1	35	2	324	0	0	4	21	0	0
908040	0	4	0	24	0	55	0	265	0	0
8537100030	2	29	2	23	0	0	0	0	0	0
9024100000	0	269	0	45	0	25	0	307	0	5
9031100000	0	35	0	66	0	0	0	0	0	0
300000	0	10	0	0	0	18	0	239	0	0
9032810040	8004	137	1282	77	138	73	806	40	16915	57

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	13	1333	0	0	0	0	11	695	1	47
210080	4	170	0	0	0	0	0	0	4	369
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	5	186
290050	3	20	0	0	0	0	5	114	9	181
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	2	30	0	0	0	0	1	4	5	168
910060	1	254	0	0	0	0	1	39	1	6
910090	1	32	0	0	2	39	1	11	1	9
990030	0	0	0	0	0	0	0	0	1	109
990040	0	0	0	0	0	0	1	10	0	0
990060	0	0	0	0	1	17	3	32	0	0
8463100080	5	156	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	6	213	0	0	0	0	18	1381	7	139
900080	10	80	0	0	1	46	10	184	7	1289
9800000002	7	42	0	0	0	0	3	27	16	247
9900000002	55	36	0	0	4	4	86	80	116	64
Month Tot	107	2365	0	0	8	105	140	2577	173	2813
Y-T-D Tot	1444	26092	19	695	167	968	1026	16013	1654	33142
NC YTD Tot	35	3792	1	136	3	79	11	1239	50	4900
C&F Month	581	4879	8	466	17	319	237	4256	671	7308
C&F Y-T-D	4247	58610	42	4402	664	4840	2583	39380	6404	59867
C&F NC YTD*	179	25333	1	136	9	493	43	6531	138	15006

Other Manufacturing Technology

1000000000	0	4797	0	0	0	1402	0	5325	0	6670
2000000000	0	1878	0	31	0	413	0	2051	0	3774
2710003070	0	0	0	0	0	11	0	39	0	198
8428900010	9	91	0	0	0	0	6	61	1	130
8431390090	0	112	0	439	0	20	0	79	0	2436
8456100000	2	47	1	17	0	0	9	1595	7	127
200000	0	0	0	0	0	0	1	57	0	0
8477106010	1	99	0	0	0	0	0	0	0	0
106070	0	0	19	3059	1	120	2	122	1	91
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	33	2232	0	0	0	0	4	52
300000	0	0	0	0	0	0	15	250	20	751
400000	1	10	0	0	1	19	0	0	13	145
510010	1	73	0	0	2	43	8	50	68	1296
510090	0	0	0	0	0	0	0	0	5	72
590000	21	325	0	0	0	0	1	17	22	61
800000	2	21	0	0	7	11	8	987	17	539
8479899040	0	0	0	0	0	0	88	833	3	105
908040	0	56	0	0	0	0	0	65	0	79
8537100030	56	644	0	0	0	0	25	376	12	185
9024100000	0	792	0	0	0	0	0	398	0	342
9031100000	0	47	0	0	0	0	0	24	0	219
300000	0	0	0	0	0	0	0	0	0	46
9032810040	5602	490	1	4	124	26	5535	332	1677	237

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
July 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	3	242	0	0	3	242
Denmark	7	316	1	9	8	325
East Germany	0	0	0	0	0	0
Finland	8	17	3	106	11	122
Greece	0	0	6	1318	6	1318
Hungary	3	190	0	0	3	190
Iceland	0	0	0	0	0	0
Ireland	7	127	5	120	12	247
Luxembourg	0	0	0	0	0	0
Norway	6	75	7	11	13	85
Poland	0	0	0	0	0	0
Portugal	1	1194	6	5	7	1199
Romania	0	0	0	0	0	0
Sweden	10	58	4	78	14	136
Turkey	28	141	0	0	28	141
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	0	0	0	0
TOTAL	1439	17158	469	10444	1908	27602
NORTH AND CENTRAL AMERICA						
Bahamas	1	15	0	0	1	15
Barbados	0	0	0	0	0	0
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	41	101	0	0	41	101
Dominican Rep	0	0	7	6	7	6
El Salvador	0	0	0	0	0	0
Guatemala	3	7	0	0	3	7
Haiti	0	0	2	5	2	5
Honduras	3	30	3	27	6	58
Jamaica	0	0	4	369	4	369
Panama	2	3	2	80	4	83
Trinidad	6	24	1	41	7	66
Oth N & C Am.	3	15	55	7	58	22
TOTAL	1326	13057	956	9481	2282	22538
SOUTH AMERICA						
Argentina	5	3	2	34	7	37
Bolivia	0	0	0	0	0	0
Chile	19	478	3	68	22	546
Colombia	51	117	13	9	64	126
Ecuador	2	56	0	0	2	56
Paraguay	0	0	0	0	0	0
Peru	1	32	16	13	17	45
Uruguay	0	0	0	0	0	0
Oth South Am.	1	6	0	0	1	6
TOTAL	94	1745	151	1553	245	3298
OCEANIA						
New Zealand	11	17	3	10	14	27
Oth Oceania	0	0	0	0	0	0
TOTAL	118	271	100	478	218	749

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
July 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	152	275	7	229	159	504
Iran	0	0	1	29	1	29
Iraq	0	0	0	0	0	0
Israel	7	114	5	11	12	125
Jordan	1	3	0	0	1	3
Kuwait	2	43	0	0	2	43
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	1	3	0	0	1	3
Pakistan	0	0	0	0	0	0
Philippines	47	113	11	44	58	157
Qatar	0	0	0	0	0	0
Saudi Arabia	25	58	4	141	29	200
Sri Lanka	0	0	0	0	0	0
Syria	1	5	0	0	1	5
United Arab Emr	5	35	0	0	5	35
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	1528	16066	463	12730	1991	28796
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	11	198	0	0	11	198
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	22	354	1	37	23	391
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	1	6	1	6
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	2	29	0	0	2	29
TOTAL	35	582	2	43	37	624

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: October 3, 1990

U.S. IMPORTS - Metal Cutting Machine Tools - July 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	524	33319	29	1880
301050	Electro-discharge machines, n.e.c., NC	188	11186	65	3951
301070	Electro-discharge machines, n.e.c., non-NC	234	4796	36	804
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1377	107497	196	14522
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	81	16486	13	2552
100035	Horiz. mach. ctrs., ATC	403	89557	42	10601
100045	Mach. ctrs., n.e.c.	136	34470	21	18649
200010	Unit construction mach. (single station transfer), NC	14	1447	0	0
200090	Unit construction mach. (single station transfer), non-NC	1	361	0	0
300010	Multi-station transfer machines, NC	30	10634	1	2346
300090	Multi-station transfer machines, non-NC	60	23229	10	5248
8458110010	Horiz. lathes, multiple spindle, NC	169	27877	24	3470
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1456	102314	230	15567
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	336	47867	47	6316
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	36	11140	5	2131
190030	Horiz. engine or toolroom lathes, non-NC	2581	27752	468	4356
190050	Automatic bar and/or chucking mach., single spindle, non-NC	614	11784	78	1111
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	89	6715	7	595
190090	Horiz. lathes, n.e.c., non-NC	1072	9884	113	934
911060	Vertical turret lathes, multiple spindle, NC	20	3553	1	250
911080	Vertical turret lathes, n.e.c., NC	27	6899	6	1670
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	51	5291	21	1797
991050	Vertical turret lathes, non-NC	66	2904	2	362
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	690	13698	131	1656
8459100000	Way-type unit head machines	2	1488	2	1488
210080	Other drilling machines, NC	197	12468	44	2587
290040	Drilling machines, multiple spindle, non-NC	56	1339	0	0
290050	Drilling machines, radial, non-NC	304	2242	90	584
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	53	630	8	62
290090	Drilling machines, n.e.c., non-NC	322	10885	78	4291
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	663	1	224
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	44	6642	12	3388
310070	Boring-milling mach., n.e.c., NC	22	832	2	3
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	26	1863	8	328
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	74	4241	25	2658
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	36	1093	2	48
400070	Boring machines, n.e.c., NC	27	3282	1	166
400080	Boring machines, n.e.c., non-NC	136	4692	37	853
510080	Milling machines, knee type, NC	384	5911	39	951
590030	Milling machines, knee type, non-NC	2138	14795	208	1818
610080	Milling machines, excl. knee type, n.e.c., NC	363	14336	192	3482
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344	0	0
690070	Milling machines, bed type, non-NC	39	2042	0	0
690090	Milling machines, n.e.c., non-NC	487	12879	119	3631
700020	Threading or tapping machines, n.e.c., NC	101	5219	16	834
700080	Threading or tapping machines, n.e.c., non-NC	106	2790	10	323
8460110080	Flat surface grinding mach., NC	90	7792	11	999
190010	Flat surface grinding mach., recip.-table type, non-NC	654	8440	168	2118
190050	Flat surface grinding mach., n.e.c., non-NC	1149	11870	81	1051
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	296	51310	68	12308
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	297	10840	25	2690
290030	Grinding mach., internal cylindrical, non-NC	144	7524	81	2824
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	765	26599	94	7161
310080	Sharpening machines (tool & cutter grinding), NC	133	3217	11	671
390050	Sharpening machines (tool & cutter grinding), non-NC	516	5986	87	857
400060	Honing or lapping machines, NC	26	3359	4	1110
400080	Honing or lapping machines, non-NC	142	4952	17	813
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	29	1487	4	143
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	864	26012	129	5686
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	3	40	0	0
200010	Shaping or slotting machines, NC	68	2347	0	0
200090	Shaping or slotting machines, non-NC	134	3108	13	1420
300060	Broaching machines, NC	3	7114	0	0
300080	Broaching machines, non-NC	58	1621	0	0
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	86	6554	7	1348
401040	Gear shapers	15	3521	3	317
401060	Gear cutting machines, n.e.c.	73	557	8	134
405050	Gear grinding or finishing for bevel gears	57	891	2	265
405070	Gear grinding or finishing machines, n.e.c.	55	13593	8	1897
500050	Sawing or cutting-off machines, NC	62	3790	5	569
500090	Sawing or cutting-off machines, non-NC	1243	18026	235	3493
9000000001	Metal cutting machine tools, n.e.c.	225	8325	22	2707
9800000001	Used or rebuilt machine tools	3311	18953	1449	3874
9900000001	Machine tools valued at less than $2,500	524192	55058	73430	7756
	Cutting Total			78402	190705
	Y-T-D Cutting Total	549899	1034221		
	NC Y-T-D Cutting Total	6708	640687		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - July 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	2	305	0	0
8457100015	0	0	0	0	0	0	1	132	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	2	330	0	0
110050	0	0	0	0	0	0	2	289	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	1	31	4	45	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	34	175	0	0	0	0	0	0
911060	0	0	0	0	1	250	0	0	0	0
911080	0	0	0	0	1	47	1	840	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	21	83	6	77	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	7	58	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	320	5	2326	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	19
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	9
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	2	48	0	0	17	278
510080	0	0	0	0	0	0	0	0	1	13
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	2	856
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	7	2422
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	2	6	1	3	0	0
8460110080	0	0	0	0	0	0	0	0	1	76
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	60	0	0	0	0
210080	0	0	0	0	1	241	0	0	7	634
290010	0	0	0	0	6	43	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	4	0	0	4	239	0	0	3	11
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	4	0	0	1	21
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	6	70	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	4	67	0	0	11	238
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	6	16	1	67	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	1	25	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	15	309	2	40	35	220
9000000001	0	0	0	0	2	14	4	1100	0	0
9800000001	0	0	0	0	13	109	0	0	1	3
9900000001	14	8	0	0	14	23	70	104	3198	668
Month Tot	15	12	63	348	92	2012	91	5537	3286	5467
Y-T-D Tot	42	1027	1600	9002	1003	14097	1200	18255	23377	37160
NC YTD Tot	2	110	2	464	29	3197	57	8038	86	11783

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - July 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	22	1282	0	0	0	0	0	0	0	0
301050	27	1873	0	0	0	0	0	0	0	0
301070	1	15	0	0	0	0	0	0	0	0
8457100015	93	9355	6	265	17	833	7	299	0	0
100025	11	2346	0	0	0	0	0	0	0	0
100035	34	8822	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	2	687
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	2346	0	0	0	0	0	0	0	0
300090	5	2771	0	0	0	0	0	0	0	0
8458110010	20	3050	0	0	0	0	0	0	0	0
110030	185	13174	1	47	0	0	0	0	0	0
110050	41	5834	0	0	0	0	0	0	0	0
110090	3	719	0	0	0	0	1	108	0	0
190030	2	61	0	0	23	299	26	295	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	3	173	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	3	689	1	95	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	9	933	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	117	0	0	0	0	30	143	0	0
8459100000	0	0	0	0	0	0	1	1413	0	0
210080	38	1857	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	2	95	13	37
290070	0	0	0	0	0	0	2	11	0	0
290090	6	299	0	0	0	0	42	876	20	74
310010	1	224	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	1	166	0	0	0	0	0	0	0	0
400080	4	387	0	0	0	0	0	0	0	0
510080	1	139	0	0	0	0	0	0	0	0
590030	1	29	0	0	0	0	124	1013	2	106
610080	5	1678	0	0	2	80	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	10	534	0	0	0	0	5	117	0	0
700020	15	492	0	0	0	0	0	0	0	0
700080	6	297	0	0	0	0	0	0	0	0
8460110080	6	900	0	0	0	0	0	0	0	0
190010	2	628	0	0	40	538	0	0	0	0
190050	11	313	0	0	0	0	1	7	0	0
210080	30	5381	0	0	0	0	0	0	1	562
290010	3	361	0	0	0	0	0	0	1	167
290030	3	1560	0	0	0	0	0	0	0	0
290050	26	3496	0	0	0	0	0	0	0	0
310080	2	228	0	0	0	0	0	0	0	0
390050	5	40	0	0	0	0	0	0	0	0
400060	3	301	0	0	0	0	0	0	0	0
400080	2	313	0	0	0	0	0	0	0	0
900060	1	90	0	0	0	0	0	0	0	0
900080	55	2637	0	0	0	0	2	230	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	6	1337	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	1	270	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	5	830	0	0	0	0	0	0	0	0
500050	4	549	0	0	0	0	0	0	0	0
500090	34	1589	0	0	0	0	6	60	0	0
9000000001	4	308	0	0	0	0	0	0	0	0
9800000001	683	1740	0	0	6	20	0	0	0	0
9900000001	1349	335	2205	196	12	2	0	0	355	350
Month Tot	2784	82869	2213	603	100	1772	249	4666	394	1982
Y-T-D Tot	32934	502608	6362	11164	669	12556	1424	16265	1603	8705
NC YTD Tot	3900	425090	98	6532	124	6376	84	1819	13	3906

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - July 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	7	598	0	0	0	0	0	0	0	0
301050	14	881	0	0	16	882	0	0	8	315
301070	20	302	9	54	2	55	2	73	0	0
8457100015	0	0	9	518	30	1935	7	512	26	673
100025	0	0	2	207	0	0	0	0	0	0
100035	0	0	0	0	0	0	8	1779	0	0
100045	0	0	0	0	0	0	8	17510	11	453
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	58	0	0	0	0	4	2419	0	0
8458110010	0	0	3	130	0	0	1	290	0	0
110030	0	0	12	682	18	939	0	0	12	394
110050	0	0	4	192	0	0	0	0	0	0
110090	0	0	0	0	0	0	1	1304	0	0
190030	0	0	106	971	29	529	0	0	277	2125
190050	6	683	52	366	0	0	0	0	20	62
190070	4	574	3	21	0	0	0	0	0	0
190090	0	0	19	95	15	299	0	0	42	193
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	6	311	0	0	0	0	0	0	6	552
991050	2	362	0	0	0	0	0	0	0	0
995090	0	0	3	106	8	138	1	631	61	362
8459100000	0	0	0	0	1	75	0	0	0	0
210080	0	0	0	0	0	0	6	730	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	17	112	0	0	0	0	51	281
290070	0	0	0	0	0	0	6	51	0	0
290090	0	0	1	13	0	0	2	383	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	1	908	11	2480	0	0
310070	0	0	0	0	0	0	2	3	0	0
390040	0	0	0	0	0	0	1	40	7	288
390050	0	0	0	0	0	0	16	2571	8	68
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	39
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	12	90	2	50
510080	0	0	25	201	3	162	4	375	5	61
590030	2	152	40	307	0	0	1	94	38	117
610080	0	0	20	269	0	0	156	456	7	142
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	91	485	0	0	1	15	5	57
700020	0	0	0	0	0	0	1	342	0	0
700080	0	0	0	0	1	16	0	0	0	0
8460110080	0	0	1	4	3	19	0	0	0	0
190010	0	0	102	887	0	0	16	43	8	22
190050	2	31	58	551	4	62	0	0	4	37
210080	6	1258	0	0	1	114	22	4118	0	0
290010	10	1179	0	0	2	94	3	845	0	0
290030	5	645	0	0	0	0	52	434	21	186
290050	3	26	2	12	6	74	43	3183	6	115
310080	2	59	0	0	0	0	6	308	1	76
390050	10	213	37	188	15	118	11	226	7	48
400060	0	0	0	0	0	0	1	810	0	0
400080	1	13	0	0	3	10	5	408	0	0
900060	0	0	0	0	0	0	1	45	2	8
900080	0	0	0	0	20	139	23	2283	14	93
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	4	1321	3	26
401040	0	0	0	0	0	0	0	0	2	47
401060	0	0	0	0	5	87	1	25	2	22
405050	0	0	0	0	0	0	0	0	1	240
405070	2	1059	0	0	0	0	1	8	0	0
500050	0	0	0	0	0	0	1	20	0	0
500090	1	83	7	29	4	13	39	537	92	614
9000000001	4	685	1	6	0	0	6	465	1	130
9800000001	5	125	47	82	667	1448	20	306	7	41
9900000001	251	7	57892	5087	72	73	306	186	7692	717
Month Tot	364	9305	58563	11572	926	8188	812	47718	8450	8653
Y-T-D Tot	1322	51010	397135	77014	4073	61622	9676	170473	67479	43263
NC YTD Tot	266	17826	602	18002	495	40708	626	84148	324	12686

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 90

RELEASED: October 3, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	277	11469	58	771
8462100030	Headers and upsetters, including cold headers	100	8370	13	828
100050	Forging or die stamping machines, and hammers, n.e.c.	497	29003	77	5891
210080	Bending, folding, straight. or flat. mach., incl presses, NC	352	17704	31	1963
290030	Press brakes, non-NC	188	5357	31	1027
290040	Bending rolls, non-NC	68	1873	4	163
290050	Bending, folding, straight., or flat., n.e.c., non-NC	742	23459	96	2931
310080	Shearing machines, NC	46	2772	6	778
390050	Shearing machines, non-NC	353	10430	57	3184
410080	Punching or notching mach., incl. comb. punch & shear, NC	218	22728	19	2846
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	435	7982	56	1359
910060	Hydraulic presses, NC	12	3371	0	0
910090	Hydraulic presses, non-NC	1109	9904	173	1093
990030	Presses, n.e.c., NC	46	3732	1	52
990035	Mechanical transfer presses, non-NC	10	9075	0	0
990045	Mechanical presses, n.e.c., non-NC	65	3386	8	1506
990060	Presses, n.e.c., non-NC	468	20799	99	4184
8463100080	Draw benches for bars, tubes, profiles, wire or the like	39	2155	8	255
200080	Thread rolling machines	59	3170	14	346
300080	Machines for working wire	893	42906	79	5111
900080	Metal forming machine tools, n.e.c.	362	18500	138	4755
9800000002	Used or rebuilt machine tools	749	11621	101	1692
9900000002	Machine tools valued at less than $2,500	9482	3522	1209	536
	Forming Total			2278	41271
	Y-T-D Forming Total	16570	273289		
	NC Y-T-D Forming Total	674	50307		
	Cutting and Forming Totals:				
	Monthly Total			80680	231976
	Y-T-D Total	566469	1307510		
	NC Y-T-D Total	7382	690994		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	328416	0	48413
2000000000	Parts for working rubber or plastics - heading 8477	0	196802	0	30890
2710003070	Quenching or cutting oils	0	267	0	40
8428900010	Industrial robots for lifting, handling, loading or unload	1344	25170	95	1083
8431390080	Parts industrial robots, handling and loading - heading 8428	0	56730	0	12288
8456101010	Laser, light or photon beam for working metal, NC	112	20967	20	4106
101020	Laser, light or photon beam for working metal, non-NC	50	2804	7	680
105000	Laser, light or photon beam for other materials	98	3618	32	3
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	6	82	0	0
205000	Ultrasonic processes for working other materials	6	194	1	7
8477103000	Injection molding mach., for manufacturing shoes	100	2066	2	7
106010	Injection molding mach., for rubber or oth. thermosetting	489	39078	58	4903
106050	Injection molding mach., for thermoplastics	1533	144099	227	20267
200010	Extruders for rubber or other thermosetting materials	127	8732	21	1165
200050	Extruders for processing thermoplastics	617	36700	150	4422
300000	Blow molding machines	241	27665	29	7747
400000	Vacuum-molding and other thermoforming machines	124	2940	12	739
510010	Machines for molding or retreading pneumatic tires	377	31737	20	3806
510090	Machines for molding or otherwise forming inner tubes	248	10230	52	1069
590000	Machines for molding or otherwise forming n.e.c.	571	38027	44	2680
800000	Machines for working rubber or plastics n.e.c.	7657	61747	2209	6201
8479899040	Industrial robots, n.e.c.	11494	42727	1117	4383
908040	Industrial robot parts	0	19635	0	3826
8537100030	Numerical controls for controlling machine tools	8399	28551	628	2642
9024100000	Machines and appliances for testing metals	0	6969	0	775
9031100000	Machines for balancing mechanical parts	0	7644	0	815
300000	Profile projectors	0	3661	0	682
9032810020	Industrial process control instr., hydraulic	93654	1309	13925	192
810060	Industrial process control instr., pneumatic	185857	2970	87126	370

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	4	389	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	2	7
100050	0	0	0	0	8	458	0	0	1	240
210080	0	0	0	0	3	504	0	0	5	89
290030	11	330	0	0	15	594	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	4	0	0	21	900	11	162	12	269
310080	3	109	0	0	0	0	0	0	1	236
390050	16	300	0	0	4	109	0	0	4	17
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	2	205	0	0	11	48
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	5	414	2	4	4	109
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	22	1375	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	11	710	0	0	0	0	8	139	4	983
900080	0	0	0	0	7	1377	1	7	3	490
9800000002	12	198	0	0	36	338	0	0	0	0
9900000002	0	0	0	0	0	0	0	0	388	124
Month Tot	54	1650	0	0	127	6663	22	312	435	2614
Y-T-D Tot	398	16358	0	0	1162	37304	235	2456	1297	25808
NC YTD Tot	38	3210	0	0	28	1456	2	20	52	1326
C&F Month	69	1662	63	348	219	8674	113	5850	3721	8081
C&F Y-T-D	440	17385	1600	9002	2165	51401	1435	20710	24674	62967
C&F NC YTD	40	3320	2	464	57	4653	59	8058	138	13109

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1219	0	19	0	3730	0	786	0	1923
2000000000	0	180	0	0	0	5886	0	2122	0	1453
2710003070	0	0	0	0	0	28	0	0	0	0
8428900010	1	52	0	0	1	15	0	0	0	0
8431390080	0	15	0	215	0	1978	0	243	0	147
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	2	445	2	381	1	75
106050	0	0	0	0	33	5589	1	101	11	1145
200010	0	0	0	0	0	0	1	137	0	0
200050	1	220	0	0	9	167	0	0	1	118
300000	0	0	0	0	1	140	7	5545	2	1073
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	3	127	0	0	0	0
510090	0	0	0	0	2	5	0	0	0	0
590000	0	0	0	0	9	698	0	0	4	212
800000	28	102	0	0	17	154	6	88	18	1304
8479899040	0	0	0	0	29	89	3	45	0	0
908040	0	0	0	0	0	41	0	16	0	189
8537100030	0	0	0	0	0	0	0	0	0	0
9024100000	0	4	0	0	0	349	0	0	0	0
9031100000	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	4	13	0	0	0	0
810060	0	0	0	0	0	0	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	50	322	0	0	0	0	0	0	0	0
8462100030	10	481	0	0	0	0	0	0	0	0
100050	28	4580	0	0	0	0	0	0	0	0
8462210080	15	947	0	0	0	0	0	0	1	285
290030	2	54	0	0	0	0	0	0	0	0
290040	1	6	0	0	0	0	0	0	1	130
290050	10	828	0	0	0	0	0	0	14	130
310080	2	433	0	0	0	0	0	0	0	0
390050	17	2558	0	0	0	0	0	0	2	37
410080	6	732	0	0	0	0	0	0	0	0
490050	19	839	0	0	0	0	13	166	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	7	473	0	0	0	0	0	0	0	0
990030	1	52	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	3	1425	0	0	0	0	0	0	0	0
990060	33	2012	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	13	208	0	0	0	0	1	138	0	0
300080	41	1809	0	0	0	0	0	0	0	0
900080	22	335	0	0	0	0	0	0	0	0
9800000002	16	86	0	0	0	0	0	0	0	0
9900000002	47	75	0	0	35	8	5	6	10	18
Month Tot	343	18257	0	0	35	8	19	311	28	599
Y-T-D Tot	2794	105903	11	124	78	65	306	2811	444	4903
NC YTD Tot	305	23443	0	0	0	0	0	0	4	724
C&F Month	3127	101126	2213	603	135	1780	268	4977	422	2582
C&F Y-T-D	35728	608511	6373	11288	747	12621	1730	19076	2047	13609
C&F NC YTD	4205	448533	98	6532	124	6376	84	1819	17	4630

Other Manufacturing Technology

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	12654	0	54	0	540	0	331	0	1050
2000000000	0	3528	0	114	0	55	0	108	0	16
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	52	707	0	0	0	0	0	0	6	215
8431390080	0	1471	0	0	0	0	0	6	0	89
8456101010	13	3159	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	31	2722	0	0	0	0	0	0	0	0
106050	76	5508	0	0	1	14	0	0	0	0
200010	8	479	0	0	0	0	0	0	0	0
200050	11	1338	0	0	0	0	0	0	2	50
300000	11	252	0	0	0	0	0	0	0	0
400000	9	711	0	0	0	0	0	0	0	0
510010	10	1787	0	0	0	0	0	0	0	0
510090	4	698	0	0	0	0	0	0	0	0
590000	4	663	0	0	0	0	0	0	0	0
800000	2020	1253	0	0	0	0	0	0	0	0
8479899040	1048	3125	1	2	0	0	1	16	11	523
908040	0	1331	0	0	0	0	0	2	0	108
8537100030	624	2636	0	0	0	0	0	0	0	0
9024100000	0	143	0	0	0	0	0	0	0	0
9031100000	0	754	0	8	0	0	0	0	0	0
300000	0	259	0	0	0	0	0	0	0	0
9032810020	0	0	2500	17	0	0	0	0	0	0
810060	270	12	74500	120	0	0	0	0	1151	146

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 90

Metal Forming

-	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	2	34	2	26	0	0	0	0
8462100030	0	0	0	0	0	0	1	340	0	0
100050	0	0	3	28	13	102	20	413	4	70
210080	0	0	0	0	0	0	7	137	0	0
290030	0	0	0	0	0	0	0	0	3	49
290040	0	0	2	27	0	0	0	0	0	0
290050	4	185	4	89	3	106	5	210	11	48
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	7	59	2	23	5	81
410080	1	313	1	113	0	0	9	1301	2	387
490050	1	3	0	0	0	0	9	93	1	3
910060	0	0	0	0	0	0	0	0	0	0
910090	2	46	151	22	0	0	0	0	2	24
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	1	67	4	14	0	0
990060	0	0	7	275	29	112	7	277	1	132
8463100080	0	0	0	0	0	0	8	255	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	6	1066	1	50	4	21	4	333	0	0
900080	4	124	0	0	11	88	86	2258	4	76
9800000002	3	326	18	50	4	33	10	647	2	13
9900000002	0	0	617	182	16	5	35	34	56	83
Month Tot	21	2062	806	869	90	621	207	6336	91	969
Y-T-D Tot	735	14330	4561	6574	615	7961	1360	39859	2574	8834
NC YTD Tot	19	2922	6	920	5	142	179	12671	36	3473
C&F Month	385	11367	59369	12442	1016	8809	1019	54053	8541	9622
C&F Y-T-D	2057	65340	401696	83588	4688	69582	11036	210332	70053	52096
C&F NC YTD	285	20748	608	18922	500	40850	805	96819	360	16159
Other Manufacturing Technology										
1000000000	0	4089	0	1627	0	5214	0	11906	0	3272
2000000000	0	764	0	381	0	788	0	13546	0	1948
2710003070	0	0	0	0	0	0	0	12	0	0
8428900010	35	94	0	0	0	0	0	0	0	0
8431390080	0	190	0	167	0	2481	0	4330	0	955
8456101010	4	296	0	0	1	176	1	387	1	87
101020	0	0	0	0	0	0	7	680	0	0
105000	0	0	0	0	0	0	0	0	32	3
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	1	7
8477103000	0	0	0	0	0	0	2	7	0	0
106010	1	104	0	0	1	26	9	753	11	397
106050	6	878	10	490	12	173	71	3320	6	3049
200010	5	326	3	21	1	104	2	69	1	30
200050	0	0	5	129	3	104	118	2296	0	0
300000	0	0	5	21	0	0	2	652	1	65
400000	0	0	1	4	0	0	2	24	0	0
510010	0	0	0	0	1	7	1	1477	5	408
510090	0	0	0	0	0	0	45	354	1	12
590000	0	0	0	0	10	9	8	667	9	431
800000	3	123	20	155	5	117	82	2678	10	226
8479899040	2	228	0	0	0	0	2	259	20	97
908040	0	200	0	0	0	277	0	1599	0	64
8537100030	0	0	0	0	0	0	2	5	2	1
9024100000	0	23	0	0	0	123	0	125	0	8
9031100000	0	0	0	3	0	9	0	40	0	1
300000	0	1	0	0	0	355	0	5	0	62
9032810020	215	3	0	0	3000	14	6	3	8200	142
810060	0	0	10892	29	10	3	16	6	287	54

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
July 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	200	1464	1	2	201	1466
Bulgaria	0	0	0	0	0	0
Czechoslovakia	5	204	0	0	5	204
Denmark	89	336	12	18	101	354
East Germany	6	75	0	0	6	75
Finland	0	0	5	435	5	435
Hungary	0	0	0	0	0	0
Ireland	11	10	1	4	12	14
Luxembourg	0	0	0	0	0	0
Netherlands	9	342	2	24	11	366
Norway	1	2	0	0	1	2
Poland	51	783	0	0	51	783
Portugal	37	130	8	125	45	255
Romania	0	0	0	0	0	0
USSR	1	39	1	9	2	49
Yugoslavia	92	1064	1	132	93	1196
Oth Europe	14	470	1	7	15	477
TOTAL	6653	87795	908	15262	7561	103057
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	8	63	41	82	49	145
Oth N & C Am.	0	0	0	0	0	0
TOTAL	100	2074	168	6745	268	8819
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	63	348	0	0	63	348
OCEANIA						
Australia	47	162	4	76	51	238
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	47	162	4	76	51	238

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
July 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	5367	2054	3	49	5370	2104
Hong Kong	2404	102	0	0	2404	102
India	10	51	1	2	11	53
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	84	750	0	0	84	750
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	14	551	0	0	14	551
Oth Asia	0	0	0	0	0	0
TOTAL	71539	100325	1188	19186	72727	119511
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	10	3	10	3
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	10	3	10	3

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:

Total for Metal Cutting and Metal Forming appears in Metal Forming Section.

Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.

n.e.c. - Not elsewhere classified.

* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.